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Survey · Compatibility of Materials with
 High Pressure Oxygen Service

#### prepared for

National Aeronautics and Space Administration George C. Marshall Space Flight Center Huntsville, Alabama

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NASA Order Number H-9 2180A Principal Technical Representative John G. Austin Huntsville, Alabama

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### A Survey of Compatibility of Materials with High Pressure Oxygen Service

#### I. Introduction

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The Cryogenics Division of the National Bureau of Standards (NBS-CD) was recently requested by the Marshall Space Flight Center of the National Aeronautics and Space Administration (NASA-MSFC) to perform a survey and assess the existing state of knowledge regarding compatibility of materials with high pressure oxygen. Particular emphasis is to be placed on past practical operational and research experience.

Material compatibility, in general, implies a harmonious coexistence of all the materials of a system. The lack of such compatibility can lead to undesirable and sometimes disastrous results. For example, the chemical reaction of a combustible material with oxygen in a system results in corrosion, burning, or even explosion. It is clear that the general definition of incompatibility encompasses many phenomena. In this study, however, we have restricted ourselves to the consideration of materials exposed to high pressure oxygen. Because only high pressures are considered, any manrelated incompatibilities are ignored. The harmonious coexistence of materials in a high pressure oxygen system implies the physical containment of the oxygen as well as the lack of significant chemical reactions with the oxygen, Thus compatible materials are defined, in this study, as those materials or combinations of materials with sufficient mechanical strength to withstand the high pressures and whose properties are not significantly degraded by the presence of oxygen. We will pay particular attention to the ease with which any degradation is initiated (reaction sensitivity), the rate at which degradation progresses (reaction intensity), and the sources of degradation

initiation (ignition sources). The dependence of these parameters on physical properties, such as thermal conductivity, specific heat, density, and heat of combustion, as well as system characteristics, such as pressure, pipe wall thickness, total mass, radius of pipe bends, and surface roughness, is considered. It is to be noted that the dependence on pressure is the primary consideration here; however, the interdependence of the effects of these characteristics makes it essentially impossible to analyze any one separately.

The objective of this survey is to gather the available information on the compatibility of materials with oxygen as applied to the production, transport, and applications experience of high pressure liquid and gaseous oxygen and to compile this material into a usable reference report. High pressure is here defined to be above about 2000 to 3000 psia. Since high pressure projections sometimes can be made from lower pressure data, some low pressure data are also included. Low pressure data are included if they are considered helpful to a better understanding of the behavior at high pressures.

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It is anticipated that this technical input to NASA-MSFC will assist in the establishment of practical and safe, but not stifling, guidelines in the future use of high pressure oxygen. It is hoped that such guidelines will eventually be commonly accepted throughout NASA, other government agencies, and the commercial sector as well.

Recently, Clark (1971) of NBS performed a survey on oxygen compatibility of materials at ordinary pressures. Information from Clark's report which is especially applicable to high pressure application will be repeated for convenience. Surveys of oxygen related accidents have been conducted recently by Ordin (1971) and Johnson (1970) for NASA and by McQuaid and Ccle (1972) for the Navy. Each of these surveys indicate a surprisingly high rate of accidents caused by material incompatibility. The surveys by Ordin and Johnson covered

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NASA, some Air Force, and some related contractor records. Or in reported 20% of the mishaps with liquid oxygen and 36% of the mishaps with gaseous oxygen involved material incompatibility. Johnson reported 56% were caused by the presence of oxygen incompatible materials. In many cases more than one factor was involved in the mishaps. For example, procedural errors were involved in 78% of the mishaps and design errors were present in 63% of the mishaps according to Ordin. Even though material incompatibility with oxygen was present in fewer instances than procedural or design error, the percentage due to incompatibility is significantly large and it is expected to be even higher in high pressure oxygen systems. It is also noted that the accident rate due to material incompatibility in high pressure gaseous oxygen is almost twice that in liquid oxygen.

McQuaid and Cole's (1972) survey indicates an accident in a Navy compressed gas system due to spontaneous ignition every four weeks during the period January 1968 to May 1971. They do not indicate what proportion of these are due to material incompatibility, but do state that material failure accounts for about half of these accidents; the cause of the other half is unknown. No accidents are attributed to design failure or personnel error. From this information one can not rule out that a sizable proportion may be due to material incompatibility.

Recent trends in NASA, military, and commercial use of liquid (LOX) and gaseous (GOX) oxygen point toward use of higher pressures. With this increased use to 10,000 psi and higher, compatibulty considerations are of paramount importance. Deep concern with safety is rightfully prevalent throughout the field, both by the producer and the user. This survey will better define material incompatibility problems and hazards caused by the use of high pressure LOX and GOX. This report contains recommended guidelines in later sections which will hopefully allow the necessary flexibility and compromise between cost - effectiveness and

safety. Also included is a tabulation and assessment of available high pressure compatibility data and an indication of the availability of equipment. The next section is a discussion of the compatibility parameters affecting the selection of materials for high pressure oxygen service. Following sections include discussions on structural integrity, chemical compatibility, and experimental tests and data which characterize the relative compatibility of different materials.

II. Material Selection

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The selection of a given material to fulfill a specified function in high pressure oxygen service must be based both on its physical-mechanical properties as well as its chemical properties. The principal chemical property of interest here is its potential reactivity with oxygen. The relevant physical-mechanical properties are primarily strength and plastic deformation properties. For example the plastic deformation of polytetrafluoroethylene may make it unusable for a valve seat material at sufficiently high pressure and copper may be too weak for a pressure chamber, even though they may be judged chemically compatible with oxygen. Also, the designer needs to consider that plastics and nearly all metals become more brittle at LOX temperatures. Other properties such as specific heat, thermal conductivity, density, and thermal diffusivity influence material compatibility. For example, nickel-copper alloys are rapidly replacing stainless steel in high pressure oxygen systems because of the increased thermal conductivity and diffusivity of the nickel-copper alloys. The higher thermal conductivity results in lower reaction sensitivity. Also, mechanical properties may be altered in the presence of high pressure oxygen, e.g. crack propagation may be enhanced.

Several good reviews of lower pressure oxygen compatibility have been written. Many of these contain information basic to the understanding of the higher pressure phenomena. The most recent review is by Clark (1971);

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other noteworthy reviews and technical papers are by Pelouch (1972), McQuaid and Cole (1972), McKinley (1971), Attwood and Allen (1971), Ordin (1971), Schwinghamer (1971), Keeping (1971), Blackstone and Ku (1971), Johnston (1970), Kimzey (1970), Guter (1967), Olson (1967), White and Ward (1966), Nihart and Smith (1964), Baum, Goobich, and Trainer (1962), Dean and Thompson (1961), Van Dyke (1959), and Grosse and Conway (1958). An assessment of the views presented by these authors along with our own views are described in this report.

Of particular interest is the work on oxygen safety by the Aerospace Safety Research and Data Institute (ASRDI) at NASA - Lewis Research Center. They will be publishing, soon, a series of NASA Special Publications entitled "ASRDI Oxygen Technology Survey: - - - - " covering the subject areas of metals and alloys, cleaning requirements, hardware, and contamination control. Of special interest for material selection is the report in this series by Pelouch (1972). Another pertinent report of this series is a state-of-the-art survey on oxygen instrumentation, including a section on pressure measurement. This survey is being performed by the Crycgenics Division, NBS, Boulder. ASRDI has also collected a large amount of oxygen safety related information into a computerized data retrieval system called RECON. These reports and the readily accessible data bank should be very helpful for assessing specific problems.

An extensive treatise on the subject of material selection for application in manned spacecraft is NASA MSC-02681 (1972). This volume contains more general technical information and design guidelines regarding oxygen compatibility than any other single reference work. It is not addressed toward problems associated with high pressures; however, as is stressed later, low pressure guidelines are directly applicable at high pressure as well.

#### A. Structural Considerations

Prior to chemical reaction considerations, one should be assured that the material selected for a given application is structurally adequate. If the material is not structurally adequate there is little point in assessing its chemical compatibility. The physical - mechanical properties of interest for high pressure service are strength, hardness, mechinability, brittleness, thernial expansion, etc. Data necessary for structural design can be found in many sources. A few recent sources are <u>Aerospace Structural Metals</u> <u>Handbook</u> by Weiss (1966), <u>Cryogenic Materials Data Handbook</u>, Schwartzberg (1968), and <u>Materials Properties Data Handbook</u> by Aerojet Nuclear Systems Company (1970), NATO-AGARD (1959).

ASRDI recently contracted Linde Division of Union Carbide Corporation to report on their vast experience in design and handling of oxygen systems. The resulting report, Linde (1971), includes a section on "Structural Compatibility" with emphasis on thermal expansion problems encountered with LOX equipment. **B.** Chemical Reaction Consideration

Chemical reactions with system materials are important in that the material properties may be altered to the point of system failure. Material incompatibility here is generally synonymous with oxidation or burning. Important factors in the consideration of oxidation are reaction sensitivity, reaction intensity, and ignition sources. The effect of high pressures on these factors and ultimately on equipment design is essentially the subject of this study.

#### 1. Reaction sensitivity

Reaction sensitivity is a measure of how readily a material will react with oxygen. Most of the experimental tests performed to characterize oxygen compatibility (described in a later section) are directed toward obtaining a measure of reaction sensitivity. Examples of reaction sensitivity tests are those involving reactions initiated by impact, by heating, or by electric arc. The variable most important to reaction sensitivity is the

ignition temperature of the material. However, this may be considerably altered by the presence of oxide coatings or contamination. It is to be noted that many of the materials tested include contamination or impurities. Oxide coatings on metals usually raise the apparent ignition temperatures; while contaminants generally lower the ignition temperature. Impurities such as cil or grease, rust, metal filings, etc. on metals usually drastically increase the probability of reaction. Other factors which are significant in the consideration of reaction sensitivity are specific heat, thermal conductivity, density, thermal diffusivity, and material configuration.

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The ignition temperature is the most critical factor in determining a material's reaction sensitivity. As will be shown later, the ignition temperature of a solid generally decreases with increasing pressure up to about 2000 psia. Above this pressure the ignition temperature is relatively independent of pressure. Thus, the reaction sensitivity is not expected to change appreciably at higher pressures. However, the possibility of ignition at higher pressures is enhanced because the possibility of the release of sufficient energy is greater.

#### 2. Reaction intensity

Reaction intensity is a measure of the rate of energy release of the reaction once it is started. The importance of reaction intensity to material selection is discussed by Blackstone et al (1971), (1970), (1967) and Jamison (1971). Reaction intensity determines to a large extent the degree of damage done to a system, the speed with which the damage progresses, and the ability of the reaction to spread to other materials in the system. The factors which most influence reaction intensity are heat of combustion and oxygen availability. Oxygen availability is determined by temperature, volume, pressure, and rate of flow. Other factors influencing reaction intensity are material density, configuration (e.g. the size of the heat sink) and the properties of combustion products. Reaction intensity is expected to be greater in high pressure systems due to the increased availability of oxygen and concomitant increased burning potential.

#### 3. Ignition Sources

It is often stated that a reaction is only possible in the presence of a fuel, an oxidizer, and an ignition source. This statement is of little consolation in an oxygen system when one realizes that the fluid is the oxidizer, the system is the fuel, and ignition sources are everpresent in varied forms. Probably the most important source of ignition in a high pressure system is the heating due to rapid adiabatic compression. The use of materials with high thermal diffusivity and high heat capacity are most beneficial here since the most rapid rates of heating by compression are not appreciably faster than the effective surface cooling rate of good heat conductors.

Another important source of ignition is impact, such as by small particles or bull pieces in a flowing stream of oxygen. Heating caused by friction and static discharges can also ignite system components. In high pressure systems the probability of ignition is greater because of increased likelihood of encountering high temperatures and possible lowered ignition temperatures. High pressures generally also result in greater flow velocities, increased impact energies, and frictional heating effects. いたちというなど、とうしたいというとうというなどのためないないないないであるというないであるのです

A chemical reaction of significance that is seldom considered is the fracture or crack propagation enhancement by an oxygen atmosphere. The fatigue behavior of a high pressure oxygen container is very critical, particularly if the pressure is cycled, yet very little work has been done [Linde (1971) and Baum, Goobich, and Trainer (1962)]. Crack growth enhancement has been reported for a titanium alloy by Jackson et al (1963) and the absence of any enhancement for a nickel alloy has been reported by NASA (1970). This is an area of investigation that has been sorely neglected and, therefore, projections to high pressure are impossible.

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#### C. Recommended Selection Procedure

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As indicated earlier, it is best to first select materials which physically fulfill the mechanical demands of the component considered. These materials are then analyzed to select the most chemically compatible material. This selection process is often based upon the material ranking of a given compatibility test. Or it may be based upon the concensus of the material ranking recommendations found in the literature, as is also frequently advocated. However, we believe that both of these suffer from two serious drawbacks; (1) no consideration is given to the uniqueness of the particular demands of the application in question and (2) the materials ranking recommendations based upon the results of individual investigations often are highly contradictory. These contradictory results are frequently due to the specialized nature of the test and the biased interpretation of the results. A case in point is the wide disparity in the ranking of aluminum and stainless steel reported by various investigators: Dean and Thompson (1961), Kirschfeld (1961), (1965), (1967) and (1968), and Nihart and Smith (1964). We believe the material selection process should be accomplished by matching the particular demands of the equipment component with the materials best satisfying these demands. Material selection on this basis assumes the existence of several types of compatibility and physical properties data for these materials. For example, if a component is likely to be impacted but not likely to be in a high temperature environment, materials with a low impact sensitivity should be considered regardless of their ranking according to ignition temperature. This proce 'ire, apparently already used by NASA, is discussed in the report NASA, MSC-02681 (1972). The importance of equipment design, as discussed in other parts of this report, should not be ignored. For example, the introduction of slow opening valves and heat sinks, whenever possible, will reduce the probability of ignition by adiabatic compression.

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The following is a priority sequence of guidelines that should be followed when selecting materials for oxygen use in the presence of ignition sources. Of course any considerations must include the effects of possible contaminants in the system.

1. Eliminate ignition - select a mater al which is least likely to ignite under the operational conditions.

2. Prevent continued reaction - select a material which tends to quench the reaction after ignition.

3. Reduce the rate of reaction - select materials which react as slowly as possible after ignition to permit the control of the reaction.

These recommendations encompass those suggested by McKinley (1971) and recommended by NASA - Myers (1971). The first guideline is most likely satisfied by selecting the material with highest ignition temperature but is also affected by the presence of oxide coatings or the possibility of intermaterial reactions. For example, it has been reported and discussed by Key (1968), (1964), Ordin (1971), and Keeping (1971) that chlorofiuoro compounds may react strongly with aluminum under shear forces. This reaction may be sufficient to ignite aluminum in the presence of oxygen. Irca rust according to Keeping (1971) significantly lowers the ignition resistance of aluminum in oxygen. Materials with a high thermal diffusivity are better in dynamic systems since local energy impulses will result in less pronounced hot spots than with how diffusivity materials. In a static system high thermal conductivity materials are more desirable for essentially the same reason. Materials whose melting point is higher than the ignition temperature should be free of sharp edges. The presence of sharp edges may result in hot spots for ignition. If the ignition temperature is sufficiently above the melting point, sharp edges will probably be and hed by melting before ignition occurs. This has been reported to be the case for aluminum Ly Keeping (1971).

The second guideline, selecting a material which tends to quench itself, is influenced by several factors. The heat of combustion is the most important. If it is sufficiently low, the heat may be conducted away ra-idly enough to quench the burning. The reaction products may also interfere with continued oxidation. For example, slag buildup has been reported to have a quenching effect in iron.

The materials portion of the third guideline, select slow burning materials, is affected by essentially the same factors. However, one can also utilize good design to slow down the reaction. For example, one might insert a nickel-alloy pipe section in a predominantly stainless steel pipe. The nickel alloy section, having a lower reaction intensity, would either quench or slow a reaction propagating along the pipe. The shape and size of components at strategic points in a system can be significant in controlling a reaction. Thermal anchoring of potentially reactive components to a cold heat sink c in also be useful in curtailing a burn. A rapid operating system to shut down the oxygen supply upon detecting a malfunction may prevent extensive damage, unless the initial burn occurs with explosive violence. Limiting the oxygen availability by restricting oxygen flow where possible is desirable for control purposes.

Material ranking lists are most useful for design purposes if they are clearly identified as to the experimental tests who which they are based. McKinley (1971) has compiled ranking lists based upon individual past tests. These lists and the recommendations in NASA, MSC-02681 (1972) should be consulted for material relection. The results of various compatibility experiments along with physical property data, such as melting and vaporization temperatures, thermal conductivity, specific heat, and heat of combustion,' are sometimes combined to produce a weighted index of oxygen compatibility. Such an equation has been used by Linde Division of Union Carbide Corporation [Carlson (1971)]. The critical point of setting up such an equation is the choice of the weighting factor for each parameter in the

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equation. In our opinion, the importance of ignition temperatures can hardly be overstressed at high pressures and the prevention of ignition should be the principle goal. Next we will discuss tests which have been devised to characterize these properties and then summarize the data which have been obtained with these tests.

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#### III. Material Compatibility Tests

A test to measure the compatibility of a material with oxygen basically consists of placing the material in oxygen in the presence of an ignition source and observing the sensitivity or intensity of the reaction. The tests may be conducted under different conditions, such as at different temperatures, pressures, or ignition energies, to determine any dependence on these variables. The kinds of tests possible are limited primarily by the number of possible ignition sources. However, most tests are quite realistic in simulating working conditions and common ignition cources. Somewhat arbitrarily, these tests are described below by the following ignition categories: impact, thermal, electric arc, abrasive, and fracture. Also discussed are environmental and configuration tests which involve various forms of ignition in simulation tests. There are also many experiments designed to measure specific thermodynamic properties, such as heat of combustion, thermal conductivity, specific heat, or melting point. Strictly speaking, these are not compatibility tests, but do provide a basis for understanding the results of compatibility tests. Most compatibility tests a concerned primarily with resistance to ignition (reaction sensitivity) but some also are designed to measure the burning rate or quenchant behavior (reaction intensity) after combustion is initiated.

One of the most probable ignition mechanisms is by impact in the presence of oxygen; be it by dropping a wrench in an oxygen spill (mechanical impact), by impinging a piece of weld slag on the bend of an oxygen pipeline (particle impact), or simply by rapidly opening or closing a high pressure valve (pneumatic impact). Each of these conditions are simulated by a particular impact compatibility test method.

The most common version of an impact test is the <u>Mechanical</u> <u>Impact Test</u> developed by Lucas and Riehl (1960). This test has been used extensively and has resulted in an enormous number of data, Key (1963), (1964), (1966), (1968), Jamison (1970), and NASA, MSC-02681 (1972). It

is one of only two ASTM standard tests for oxygen compatibility, ASTM (1970). The test is conducted by imparting a known amount of energy from a falling plummet to a striker pin which is in contact with the specimen in the presence of liquid or gaseous oxygen and any reaction is noted. The test is relatively simple and readily adapted to variable pressure and temperature. Compatibility by this ASTM test is defined as no reactions out of 20 impacts with the plummet impact energy adjusted to 70 ft-lbs. Key (1968) indicated that this go-no-go test has been remarkably successful in rejecting incompatible materials. However, the arguments described in the next paragraph suggest that the poor repeatability inherent in the test may lead to the rejection of some compatible as well as the incompatible materials. Blackstone and Ku (1971) have gone so far as to suggest that this test has also passed some unacceptable materials.

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The mechanical impact test procedure has undergone extensive criticism by Blackstone (1970), Blackstone and Ku (1971), Blackstone, Baber, and Ku (1967), Burmeister, et al (1967), Reynales (1958), (1961), Staph et al (1962), and Jamison (1970). The citicism indicates essentially that the statistical procedure of the test is at fault rather than the test apparatus per se. Schwinghamer (1972) has refuted some of this criticism. A different statistical approach has been recommended by Jamison (1971) as a consequence of this criticism. Instead of accepting a material if it doesn't react in 20 tests at 70 ft-lbs, the test would be repeated 20 times at different energies to find the energy at which 50% reactions are obtained. This energy (determined from the drop height of the falling weight) is used to indicate the relative impact sensitivity of the material. This method is referred to as the Bruceton or "up-and-down" method of mechanical impact testing. According to Jamison (1971) the "up-and-down" method of impact testing, as an alternative to the go-no-go test, is both efficient and repeatable. That the Bruceton method is more repeatable than the go-no-go test is intuitively reasonable; however, the go-no-go test is less time consuming and therefore is considered useful

as a screening test if the occasional rejection of an acceptable material is permissible. Blackstone and Ku (1971) and Janison (1971) give historical accounts of the development from the first impact testor described by Lucas and Riehl (1960) to current models. As a result of recent attempts to improve the mechanical impact test it has been suggested that reaction intensity testing should also play a major role in material selection in conjunction with reaction sensitivity testing. Jamison (1971) has pointed out that the improved repeatability of the Bruceton method of implict sensitivity testing shows that materials are not significantly different in sensitivity. However, he indicates that these materials differ widely in intensity since some of them react violently and are totally consumed while others are only slightly charred. It appears that further statistical considerations may be in order here to take advantage of both techniques rather than to reject either totally.

Another form of impact test which has been used considerably is the <u>Pneumatic Impact Test</u>. The pneumatic impact test is designed to simulate the adiabatic compression resulting from a rapidly opening high pressure valve. It is usually performed in just that way with a small specimen containing test chamber suddenly opened to a high pressure reservoir. The adiabatic compression test uses the highest pressures of all the compatibility tests, except for a variation of this test using explosively generated shock staves.

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Adiabatic compression tests involve the study of material ignition in the compressively heated oxygen gas. The absolute temperature, T, of an id-al gas under adiabatic compression as a function of pressure, P, for ar. ideal gas is given by

$$T = T_o \frac{P}{P_o}^n$$

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where  $T_0$  and  $P_0$  are initial temperature and pressure, respectively and n is the ratio of specific heat at constant pressure to specific heat at constant volume and is about 1.4 for oxygen. Nihart and Smith (1964) plotted values of T versus P for  $T_0 = 273$  K and  $P_0 = 14.7$  psia. At 10,000 psia T is 1900 K which is sufficiently high to ignite almost any structural material. Whether ignition actually occurs is determined by the temperature of the material and not just the temperature of the compressed gas. Thus the transient thermal characteristics of the system are important. The thermal diffusivity, heat capacity, and other factors such as the existence of sharp edges, determine the peak temperature of the material. For these reasons an adiabatic compression test is most meaningful if performed on a system rather than on a specimen of material.

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The Particle Impact Test is the least used of the impact tests; however, its importance should not be neglected especially in high pressure systems. This test is performed by impacting particles in a flowing oxygen stream with a test specimen and any resulting reaction is recorded. This test is conducted at various temperatures, pressures, flow rates (velocities), and particle size.

<u>Thermal tests</u> are those in which the ignition source is essentially the temperature of the specimen and its environment. In reality, all ignition sources are thermal in that a local bot spot must be created for ignition to occur. Classed as thermal ignition tests are bomb tests, promoted ignition tests, and hot wire tests. The <u>Oxygen Bomb Test</u>, described by Nihart and Smith (1964) and Guter (1967) is performed as follows: a specimen is placed in an oxygen filled bomb. The temperature of the contents of the bomb is gradually raised until ignition occurs, as indicated by a rapid rise in temperature, visible flash, or audible explosion. The temperature at which ignition occurs is called the self- or auto-ignition temperature. The pressure in the chamber during the controlled temperature rise may be either constant or allowed to rise with increasing temperature. In some cases the specimen

is exposed to oxygen only after equilibrium has been reached at each temperature and the specimen is changed after each such measurement. The Oxygen Bomb Test can be used to determine gaseous oxygen compatibility of metals or non-metals in the solid, liquid or gaseous states. The Pot Test described by Guter (1967) is similar to the Bomb Test except the Pot Test is done at standard pressure and with flowing oxygen. It frequently is intended to simulate actual conditions of use and with it one can assess flow effects.

Promoted Ignition Tests are performed by burning an ignition promoting material in the presence of a specimen. Many materials have been used for promoters, however, the best materials are those that do not significantly effect the composition of the specimen surface as the promoter is burned. Contamination of the surface of the specimen by the promoter can change the specimen's ignition characteristics and thus produce erroneous results. The amount of specimen consumed by the burning of a fixed amount and type of promoter or the amount of promoter required to consume the entire specimen is used as a measure of its resistance to combustion.

The <u>Hot Wire Test</u> is conducted by heating a metal wire in a gaseous oxygen atmosphere. An electrical current is passed through the wire, resulting in  $I^2R$  (or Joule) heating. The temperature is increased with increasing current, resulting eventually in the wire either igniting or melting. This test can only be used on metals below their melting temperatures and its only advantage is simplicity.

Probably the most tragic oxygen accidents have involved electrical ignition sources such as electrical arcing from associated electronic equipment. The <u>Flash and Fire Point Test</u>, used primarily on organic materials, is performed to simulate these conditions by using an electric arc to ignite a specimen in an oxygen filled chamber. The temperature of the chamber is raised and the electric spark is generated periodically near the specimen. The temperature at which a momentary ignition occurs is defined as the

flash point; the temperature at which sustained burning occurs is called the fire point. At high oxygen pressures the flash and fire points are coincident. The relationship of flash and fire points and auto-ignition temperatures (see oxygen bomb test) is not known specifically. Intuitively, one would expect that the auto-ignition temperature is equal to or greater than the flash and fire temperature; the experimental data presented later indicate that at high pressures there is little difference between these temperatures.

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Gailing caused by two pieces of metal rubbing was projected as one of the possible causes of an oxygen tank truck accident and there have been a few <u>Abrasive Tests</u> to study such phenomena. Also the abrasive effect of fine particles in a flowing oxygen stream has been and is being studied.

A highly probable ver soldom observed accident source is <u>Fracture</u>. The exposure of a fresh clean surface of some metals to oxygen can cause a violent reaction. Various methods have been used from straight tensile tests to puncture by bullets or other projectiles, Jackson et al (1963). Even the effect of the projectile size and mate tial has been considered.

<u>Configurational</u> - The final test of oxygen compatibility for any material is whether it will ignite in its final configuration, complete with adjacent materials and possible contaminants. Because of our lack of understanding of the ignition and combustion of metals, roost critical applications also undergo an environmental test. Artificial ignition of wire harnesses or clothing, hyperbaric testing of breathing apparatus, and overloading liquid oxygen pumps are all examples of this category. These tests will always be indispensable, especially where safety is of prime concern.

In view of the controversies which exist regarding the value of various testing techniques, it is recommended that an independent group, such as NBS, study these methods and test results, using whatever expertise is necessary to establish standardized test procedures for liquid and gaseous oxygen compatibility testing. Any recommendations should be flexible enough to include new

methods or procedures as they are proven useful. As a consequence of the recent and thorough survey by Johnston (1970), it was concluded that there is considerable concern for better and improved materials selection and testing methods and safety criteria. This plea has been repeated often since 1957 with apparent little effect. Recent activity in test development and reanalysis by NASA-ASRDI may be a partial answer to these recommendations.

IV. Material Compatibility Data

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> A not insignificant portion of the materials compatibility data is unpublished. Some is difficult to obtain from the "unpublished" literature and it is especially hard to obtain corporate data. However, this is not to say that data are lacking for most technical materials. There are considerable data available, but, in some instances the inconsistencies produce a confusing picture. The principal sources containing information regarding the effect of pressure on oxygen compatibility are Attwood (1971), Baum (1962), Dean (1961), Guter (1967), Kimzey (1970), Kirschfeld (1961), (1965), (1967), (1968) and NASA MSC-02681 (1972). High pressure data from these and other sources are tabulated in Appendix I. One extensive set of unpublished data included in Appendix I is from John Austin, Marshall Space Flight Center (1972). An extensive tabulation of test data, contained in Appendix E of NASA MSC-02681, (1972), is reproduced for convenience as Appendix II. Appendix II contains the high pressure compatibility test data of both metals and non-metals, not just non-metals as indicated by the title of the source document. The document, NASA MSC-02681 (1972) is periodically updated to include the most recent NASA test data. Additional updated copies may be obtained from

> > Chief, Reliability Division Code NB NASA-Manned Spacecraft Center Houston, Texas 77058.

In several instances, data have been reported and conclusions have been drawn by the investigators which can not be neatly tabulated in Appendix I

or are difficult to summarize briefly. These data, often resulting from configuration and other non-standardized tests, are, however, very useful in assessing the oxygen compatibility of materials. To make some of these results more readily available, the summaries, conclusions, and recommendations of these papers are presented in Appendix III for the convenience of the reader. For additional detailed data, the reader is referred to the references. We are not including further summarization of these papers individually, see for example McKinley (1971); however, some of the generalizations which follow are based on the results of these papers.

The sources of oxygen compatibility information include considerable data below 3000 psia; these data are not tabulated in Appendix I unless they are useful for projections at higher pressures. The discussion of these data is separated into sections on (A) Metals and (B) Non-Metals. In Appendix I, metals are further separated into (1) Pure Metals and (2) Alloys. The nonmetals are divided into (1) Halogenated Compounds, (2) Non-Halogenated Plastics, (3) Sealants, Threading Compounds and Lubricants, (4) Elastomers, and (5) Miscellaneous. The format of the tables in Appendix I is chosen to be similar to the format of NASA MSC-02681 (1972).

Table 1 contains miscellaneous thermal data for pure metals and alloys as well as a few selected polymers. These data are useful in the selection of materials for high pressure oxygen service.

A. Metals

McKinley (1971) has done a complete and objective review of the literature on ignition and combustion of metals. He includes both low and high pressures and compiles metal ranking lists according to various experiments. These lists show that nickel and copper and their alloys are most suitable for oxygen service. They also suggest that neither aluminum nor iron alloys (including stainless steel) are highly desirable. Stainless steels, however, are generally more oxygen compatible than aluminum. The overall

Taile 1 - Miscellaneous Thermal Data on Metals and Alloys

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Material	Reference(s)	Ignition Temp. (K)	Melting Temp. (K)	Thermal Conductivity at 300 K (W/cm K)	Thermal Diffusivity at 300 K (cm <sup>2</sup> /sec)	Heat of Combustion (J/g)
Aluminum Copper Gold Iron Nickel Silver		1000 1300 doee not ignite 1200 1730 doee not ignite	933 1360 1336 1336 1812 1730 1233	2.2 4.6 3.1 0.8 0.6	0.86 0.28 0.052 0.38	31,000 2,400 7,000 4,000
Brass		1273	1183	1.0	0.074	3, 600
Inconel Hastalloy Monel		1620 1600 1520	1670 1640 1600	0. 11 0. 11 0. 25	0.008 0.008 0.016	4,700 5,000 3,400
Cr Steel 300 and 400	·	1423	1670	<b>0.</b> 30	J. 02	7,700
Stainless Steels		1400-1670	1670	0.15	0.01	8,000
Carbon Steel Dolwebelene		1365 450	1780 ~400	0. 80 0. 004	0.05 0.002*	7,500* 9,000 7,000
Nyion Teflon		475 700	~ 500	0.003 0.002	0,002*	1,100

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ranking suggested by Clark (1971) is in general agreement with these lists. Pelouch (1972) has also presented material ranking lists as a function of such parameters as strength, reaction intensity, volume, etc. and reaches essentially the same conclusions. Considering the lack of contradictory evidence at higher pressures, it is reasonable that these <u>rankings</u> would also be valid at high pressures.

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The existing compatibility data can be summarized as follows. The ignition temperatures of metals decrease with increasing pressure. However, there are insufficient data available to quantitatively define this pressure dependence for but a few metals over relatively small pressure ranges. Figure 1 illustrates the available ignition temperature data which approach the high pressure range. It is interesting to note that the nickel alloy curve crosses the steel curve, suggesting the possibility that steels may be better suited for high pressure service. The ignition temperature data presented by Nesgorov et al (1968) were normalized to unity at low pressure. To obtain the data attributed to Nesgorov presented in figure 1, we used the low pressure ignition temperature values for nickel alloys and steels as listed in Appendix I. No ignition temperature data exist above 2000 psia. There appears to be a definite need for a careful measurement of ignition temperature as a function of pressure up to at least 10,000 psia for some of the more technically important metals. The effect of specimen size and shape should also be investigated.

The burning rate of metals varies as the square root of pressure and inversely with cross-sectional area at low pressures; but at higher pressures burning rates decrease, Kirschfeld (1961), (1965), (1967), (1968). The nature of this reversal and the pressure at which it occurs are subjects for further study.

The oxygen compatibility of metals under mechanical impact has been extensively studied; however, the repeatability of the data are in question as previously discussed. Because of this lack of repeatability, it is difficult to be certain from the available data listed in Appendices I and II if metals are



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Figure 1 - Ignition temperature of metals as a function of pressure (Nesgovorov's relative data converted to absolute values by using low pressure data from Appendix I).

more or less sensitive to mechanical impact at higher pressures. The dependence on pressure, according to these data, is, at best, small. On the basis of the impact test data alone, it appears that any of the common metals and alloys, including aluminum and stainless steel, are acceptable for use. However, it is noted that the nickel and copper alloys are less sensitive to mechanical impact than aluminum and stainless steel, in particular. This can be seen in table 2, which summarizes the metals impact data of Austin (1972). This table gives the reaction frequency of each alloy class as a function of pressure. It appears that aluminum is especially impact sensitive at 100 psi. We note that the 50 psi rate is based on only 40 tests while at e. h of the other pressures several hundred tests were conducted. Thus the reaction frequency at 50 ps1 may not be statistically significant. Ignoring the data at this pressure, we see that if all metals are considered as a group, there is little pressure dependence up to 1500 psi. Table 2 also shows the lack of precision in impact testing mentioned earlier. The mechanical impact screening test was probably never intended to be subjected to such a statistical analysis; however, it is felt that the availability of a large sampling of data introduces a worthwhile degree of significance into the results of the analysis. It is recommended that all impact data listed in NASA MSC-02681 (1972) be subjected to a similar analysis. However, since other variables besides pressure are present, a statistical analysis is essentially a problem in multiple regression analysis. The analysis performed here is of course much simpler and is the reason why only Austin's data were used. In most of his data pressure was the only variable in successive tests for each material.

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Other high pressure data such as ignition by electric arc, particle impact, and flash and fire point data are being determined by Stradling (1972) for both metals and non-metals. Some of these measurements will be at pressures to 10,000 psi and, therefore, will be very useful for material ranking.

In summary, it is recommended that all types of compatibility data be extended to 10,000 psia. The data compiled in NASA MSC-02681 (1972) are

Table 2 - Summary of OX Mechanical Impact Data of Austin (1972) for the Indicated Alloy Classes. Numbers in parenthesis after reaction frequency indicate number of tests.

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PRESSURE, psi			REACTION FRI	EQUENCY	-
	1.	Aluminum	2. Steel	3. Nickel & Copper	All (1, 2, & 3)
50		0(40)	ſ	0(40)	0(80)
100		0.22(167)	0(500)	0(200)	0.03(867)
500		0.04(348)	0(480)	0(200)	0.02(1028)
1000		0.05(212)	0.01(520)	0(200)	0.02(932)
1500		0.02(122)	0.06(440)	0.03(200)	0.05(762)
10,000		·	ı	0(60)	C(60)

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extensive; however, a statistical analysis of these along with other data is needed to obtain full benefit from this compilation.

#### B. Non-Metals

Compared to metals, most non-metals are highly combustible. Since some of the metals are considered incompatible for oxygen service, it follows that most non-metals are oxygen incompatible. Because of their unique physical properties some organics, such as the polymers polychlorotrifluoroethylene and polytetrafluoroethylene, have been used extensively in oxygen service. These are probably the most compatible of the organic materials because they are highly fluorinated with strong fluorine-hydrogen bonds. Generally, the more halogenated (particularly with fluorine) a hydrocarbon 's, the more compatible it is with oxygen. The reader should refer to Appendix III for specific criticism regarding the oxygen compatibility of other organic materials. Compatibility test data for non-metals are found in Appendices I, II and III. Some general observations are given below.

The ignition temperatures, as well as the related flash and fire point temperatures of non-metals, generally decrease with increasing pressure up to about 1500 psia. Above this pressure ignition temperatures tend to be independent of pressure. A few typical curves of flash temperature versus pressure are presented in figure 2. The reader should note the close correspondence between flash point and ignition temperature. This correspondence may be even closer than appears in figure 2 because of the following: the flash points reported by Pippen and Stradling (1971) were obtained with a low pressure apparetus and a high pressure apparatus. The transition was at 50 psi. In almost all cares the flash temperatures from the low pressure apparatus were 50 to 100 K higher than the temperatures from the high pressure apparatus. The low pressure data are not shown in figure 2; however, they suggest that the flash points shown may be too low by as much as 100 K. Such an uncertainty would make high pressure

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Figure 2 - Flash point temperature as a function of pressure for some non-metals.

ignition temperature and flash points the same within experimental error. It is also observed that the flash points are nearly independent of pressure at 2000 psi, strengthening the conclusion of Nihart and Smith (1964) that the ignition temperature is independent of pressure from 2000 to 7500 psi.

Due to the imprecision of the mechanical impact data on non-metals it is difficult to readily detect a pressure dependence in sensitivity. To support this, the data of Austin (1972) were combined as shown in table 3. A similar analysis of all of the impact data is a very lengthy and complicated multiple regression problem which is not considered within the scope of this project. This however, is recommended as a project which needs to be done for both metals and non-metals.

The polymera, polychlorotrifluoroethylene and polytetrafluoroethylene, often used as valve seat materials, are oxygen compatible according to the mechanical impact data listed in Appendix I. Although more compatibility data exist for non-metals than metals, additional data at high pressures are needed to confirm the pressure dependence of ignition and impact characteristics. A more critical need, however, is the investigation of other non-metals to find those with the highest oxygen compatibility. Some areas which have probably not been fully explored are the ceramics and composites.

V. High Pressure Oxygen Equipment

Some effort has been directed toward the acquisition of information regarding the availability of high pressure oxygen service equipment. The equipment suppliers listed below have been contacted and all have sent information regarding their off-the-shelf items. This supplier list is not intended to be complete nor is it an endorsement of these companies but rather, it is a random selection of high pressure equipment suppliers intended only to illustrate the degree of availability of such equipment. In parenthesis after each of the listings we show a few of the more common products of each of these suppliers. From an assessment of this literature it appears that considerable equipment is readily available which is, or by

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Table 3 - Summary of GOX Mechanical Impact Data of Austin (1972) for the Indicated Non-Metals Numbers in parenthesis after reaction frequency indicate number of tests.

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specification can be made, compatible with high pressure oxygen. The manufacturers are aware of the problems with oxygen and are both willing and able to construct equipment using oxygen compatible materials. Their catalogs often do not specifically mention applications for oxygen, however, the materials lists and equipment design show that oxygen compatibility was considered. Manufacturers, of course, rely heavily on the user to assist in selecting oxygen compatible materials. Metals most commonly used in high pressure oxygen compatible equipment are 300 series stainless steels, and nickel alloys. Aluminum and 400 series steel alloys are used in fewer instances. The polymers Kel-F and Teflon are frequently used in valves and regulators. It has been recommended by Burmeister, Loser and Sneegas (1967) that these as well as other organics be replaced with metal parts whenever possible. It has been recommended that material ranking lists for various experimental tests be established. Such specifications will be necessary to remove the incompatible materials such as the organics in existing high pressure equipment.

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In specifying equipment for use at high pressures one should be particularly careful of adiabatic compression heating. For this reason, safeguards such as slow opening valves and heat sinks to absorb the energy from compression heating should be included whenever possible. In a high flow rate system, the sharpness of pipe bends should be limited, solid particles should be removed from the stream, sharp edges should be eliminated, and electric charge build-up should be avoided. Whenever possible, organic materials should be replaced by metal components, such as in valve seats and regulator parts. Since materials compatibility lists used by manufacturers may differ from lists established by NASA, the purchasing agency must bear the final responsibility of materials compatibility for specific applications.

Random Selection of High Pressure Equipment Suppliers Contacted for Oxygen Compatibility Information

 Airco Cryogenics Division, 1900 Main St., Irvine, Calif. 92664, Ph. 714-540-3010 (cryogenic pumps)

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- AiResearch Manufacturing Division of the Garrett Corporation, 9851 Sepulveda Blvd. Los Angeles, Calif. 90009, Ph. 213-588-1153 (storage vessels).
- American Instrument Co., 8020 Georgia Ave. Silver Spring, Maryland, 20910, Ph. 301-589-1727 (pumps, valves)
- Autoclave Engineers, Inc., 2930 W. 22nd St., Erie, Pa., 16512, Ph. 814-838-2071 (storage and reactor vessels, valves, tubing, pumps, intensifiers, metal diaphragm compressors, flanges)
- 5. Bingham-Willamette Company, Div. of Guy F. Atkinson Company, 2800 N.W. Front Ave., Portland, Oregon 97210, Ph. 910-464-8031 (pumps)
- Cosmodyne Corp., 2920 Columbia St., Torrance, Calif., 90509,
   Ph. 213-320-5650 (pumps, vaporizers, tube trailers, storage vessels)
- 7. CVI Corp., P.O. Box 2138, Columbus, Ohio, 43216, Ph. 614-876-7381 (cryogenic piping, valves, vaporizers)
- Flodyne Controls, Inc., 48 Commerce Dr., Murray Hills, New Jersey, 07974, Ph. 201-464-6200 (valves)
- 9. Harwood Engineering Co., Walpole, Mass., 02081, Ph. 617-668-3600 (tubing, fittings, valves, pumps, compressors, intensifiers, gauges)
- High pressure Equipment Co., 1224 Linden Ave., Erie, Pa., 16505,
   Ph. 814-838-2128 (tubing, couplings, fittings, valves, pressure and reactor vessels, pumps, intensifiers, gauges)
- 11. Linde Company, Dov. of Union Carbide Corporation, Tonawanda, New York, Ph. 716-555-1212 (pumps)
- Ruska Instrument, 6123 Hillcraft Ave., Houston, Texas 77036, Ph.
   713-774-2533 (high pressure instrumentation)
- Ryan Industries Inc., 4800 Allmond Ave., Louisville, Ky. 40214,
   Ph. 502-368-1633 (pumps, vaporizers, tube trailers, storage vessels)

#### VI High Pressure Oxygen Facilities

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At the present time the bulk of the high pressure oxygen compatibility research is being done at NASA-MSFC (Marshall Space Flight Center) and NASA-WSTF (White Sands Test Facility). Existing high pressure programs at NASA-MSFC concentrate on impact and flammability testing. High pressure programs have been initiated at NASA-WSTF on ignition by abrasion and electric arc as well as high pressure GOX and LOX impact testing and flash and fire point testing. The impact apparatus at MSFC and WSTF, although not identical, are quite similar. Present information indicates that practically no oxygen compatibility research is being conducted at private laboratories in the 3,000 to 10,000 psi range. The use of very high pressure oxygen is presently nearly restricted to NASA. One exception is the use of high pressure breathing oxygen systems in the medical profession and aircraft industries. Most of the past highpressure research and experience stems from the development of such breathing systems as well as those used in NASA programs. Johnston (1970) has compiled characteristics of these high pressure systems, along with the failures experience of the metal and non-metals used. Rocketdyne is establishing a facility to conduct mechanical impact studies at pressures to 10,000 psia. The impact tester now being built is the same as the one used by NASA-MSFC.

The following list of facilities includes principally those that are presently doing research or engineering involving high pressure oxygen compatibility as well as a few that have considerable high pressure applications experience. Their testing capabilities and other pertinent facts are given in parentheses after each entry.

1. Battelle Memorial Institute

Columbus, Ohio

(past compatibility research from 2500 to 12,000 psi including effects of vibration. shock, adiabatic compression, flow, and temperature)

- British Oxygen Co., Ltd
   England
   (ignition temperature to 3790 psi)
- Kennedy Space Center, NASA Cocoa Beach, Florida (10,000 psi GOX usage)
- 4. Linde Company, Division of Union Carbide Corp.
  Tonawanda, New York
  (past: compatibility testing to 7500 psi, including adiabatic
  compression, galling, powder impact, promoted ignition, and
  mechanical impact; most not to high pressure. present: ignition
  and calorimetric bomb testing to 2000 psi)
- McDonnell-Douglas Aircraft Huntington Beach, California (high pressure O<sub>2</sub> applications)
- Manned Space Center, NASA
  Houston Texas
  (high pressure O<sub>2</sub> applications, no testing)
- Marshall Space Flight Center, NASA
   Huntsville, Alabama
   (extensive LOX and GOX testing to 10,000 psi mechanical
   impact, low pressure flammabil.ty testing)
- Naval Ship Research and Development Center
   Annapolis Laboratory
   Annapolis, Maryland
   (ignition temperature testing to 3000 psi)
   (also some lower pressure adiabatic compression and hot O<sub>2</sub> flow)
- Rocketdyne Division, North American-Rockwell Canoga Park, California (mechanical impact testing to 10,000 psi)
- 10. White Sands Test Facility, NASA
  White Sands, New Mexico
  (GOX and LOX compatibility testing to 10,000 psi mechanical impact, abrasive impact, pneumatic, flash and fire point).

## VII. Recommendations

The extension of GOX and LOX applications to pressures above 3000 psia is reasonable based on the present data. However, in cases where extremely high reliability is demanded, such as in manned space flight, the extension is considered marginal without further compatibility testing. Considerable compatibility data exist at pressures up to 2000 psia; the sparse compatibility data up to 7500 psia suggest no additional problems will be encountered. However, to obtain high reliability, extensive materials compatibility testing to 10,000 psia will have to be done. Some of these data are now being obtained at NASA-MSFC and WSTF. Standardization of test procedures and materials is essential to reliability and interagency comparisons, and will also encourage involvement of indust. , in compatibility testing. New data need to be combined with existing data to be analyzed for proper interpretation. Old tests need to be studied for degree of validity. and new tests which better describe oxy (en compatibility are desirable. Design and applications guidelines will encourage safe use of oxygen and uniform practice throughout NASA. Data necessitated by future design applications must be anticipated. In support of these general recommendations, an excerpt from the Apollo 13 - High Pressure Oxygen Report (Johnston 1970) is given below:

Despite the many standards and specifications reviewed by this panel, it has become obvious that a void exists in several areas. One area of major concern is the apparent lack of sufficient detail on nonmetallic materials and their application for high pressure oxygen systems to enable a designer to select the proper material for his system.

The reason for this is that a comprehensive test program has yet to be defined and accomplished. Although some work has been started in this area, it appears that the required effort is a major one and should begin with developing a standard approach to the problem on the part of both Government and industry so that all data developed can ultimately be universally used without the requirements for interpolating test results from a many faceted approach.

The second area of concern is that no standards and/or specifications appear to exist on a total system which points out the hazards resulting from misapplication of a component which may serve its function well in some applications, but may be trigger mechanism of disaster in another application.

Based upon these generalities, the following specific recommendations are suggested:

1. <u>Extend Measurements</u> indicated below to high pressure (10,000 psi) for materials of immediate interest (Include effects of contamination).

- (a) Ignition temperature
- (b) Impact sensitivity
- (c) Flash and Fire temperatures
- (d) Pertinent configuration tests

2. Develop and Standardize Tests and Materials

(a) The <u>standardization of test procedures</u> is essential if meaningful results are to be obtained. This standardization is probably best coordinated by a group not directly involved in conducting the measurements. Involvement of ASTM would be very desirable and possibly NBS could assist in developing standard test methods, with the cooperation of test facilities.

(b) <u>Standard reference materials</u> for use in compatibility tests should be established. These materials, which can be stocked for distribution by the Office of Standard Reference Materials, National Bureau of Standards, are invaluable for the intercomparison of existing apparatus as well as the standardization of new apparatus. The establishment of standards should be done through a cooperative effort of NBS and testing facilities.

(c) The <u>development of new tests</u> more closely related to fundamental physical or mechanical properties of materials is desirable. Examples of existing tests which fall in this category are: ignition temperature and flash and fire temperature.

(d) An independent <u>statistical analysis of the repeatability of</u> <u>mechanical impact test data</u> is needed. Past studies have not been conclusive and the continuing controversy and wealth of data is justification for an in depth study.

3. Analyze Data to obtain best values.

(a) A <u>statistical analysis of all existing compatibility data</u> to determine dependence on pressure, in particular, but also on other factors affecting the reliability of the material. Multiple regression analysis would be necessary to extract this information from the existing data. The data to be analyzed are principally " ose listed in this report. This analysis is not a trivial task; however, the resulting increased worch of the data justifies the effort. The general validity and uncertainty estimates of material ranking da\*a will be considerably improved as a result of this critical analysis.

(b) More universal agreement should be obtained on <u>material</u> <u>ranking lists</u>. This can be initiated by establishing such a list for each stands d test within NASA. Work should proceed to extend the acceptance of these lists by other government agencies and industry. Ultimately international acceptance is desirable. It cannot be overstressed that the test conditions are an integral part of any ranking list.

(c) A <u>compilation of thermodynamics data</u> relevant to material compatibility is essential to any effort to understand compatibility. Test methods, test results, ranking lists, etc. are all more meaningful when they can be related to fundamental properties. Such properties as ignition temperature, heat of combustion, thermal diffusivity, melting and vaporization temperatures of metals and their oxides should be considered.

4. <u>Adopt Guidelines</u> for design and procedures for oxygen systems. Participation of oxygen producers and equipment manufacturers is indispensable in this process.

(a) Oxygen system or components design can have many inherent safety features that can be spelled out for the design engineer. This should include the materials used, flow rates, valving rates, heat sinks, cleaning accessibility, filters, internal flow cross sections, temperature limits, and many others.

(b) <u>Cleanliness standards</u> and <u>procedural guidelines</u> that are NASA wide and even nation wide are essential to the safe operation of high pressure oxygen systems.

5. Fundamental Research should be pursued in all areas of ignition and combustion, because understanding always leads to better and safer applications. Two areas in particular stand out as areas of concern for high pressure oxygen:

(a) The mechanical properties of materials in the presence of high pressure oxygen has been virtually ignored. Oxygen embrittlement is small at low pressures but may be significant at 10,000 psi. Fatigue behavior and crack propagation rates in the presence of oxygen are not known for any pressures.

(b) The burning behavior at high oxygen pressure is in real doubt. Since the degree of damage is directly related to the burning rate, this should be known. The only study of burning rates versus pressure indicate possible dramatic changes around 2000 psi.

Some of the above recommendations are already being pursued by NASA. ASRDI is sponsoring some ignition research at White Sands and is establishing design and cleanliness guidelines at Lewis Research Center. MSFC is funding some lower pressure combustion studies at NBS. These should be considered an integral but initial part of NASA's pursuit of the safe applications of high pressure oxygen.

## VIII. Summary

Based on the available data it appears that no fundamental problems would prevent the common use of high pressure GOX or LOX. There are dangers involved, of course, but with a reasonable set of rules and guidelines, these dangers can be reduced to a workable level. It appears that a large proportion of past accidents are caused by material incompatibility but an even larger proportion are caused by personal carelessness or equipment failure. With care, the added hazards due to high pressure will not increase accident rates significantly.

In high pressure systems the enhancement of existing ignition sources is more important than the decreased ignition temperature of materials. For example, in high pressure applications the effect of adiabatic compression becomes increasingly important, higher flow rates enhance the probability of ignition from friction, impact, static discharge, etc., and reaction intensities increase because of the increased density and availability of  $O_2$ . The possibility of ignition due to mechanical failures is also greater.

There are little compatibility data on most materials above 3000 psia and much is needed. It is also desirable to have more quantitative fundamental data. This requires study of the physical phenomena involved and the design of experiments to develop parameters representing these phenomena. There is a strong need for more engineering compatibility characterization measurements, such as configuration and component tests by manufacturers.

From the available data the pressure dependence of ignition and burning are not well characterized. Metal burning rates are proportional to  $\sqrt{P}$  at lower pressures but at higher pressures burning rates decrease. Only a few ignition temperature versus pressure data are available. These data show the ignition temperature decreasing with increasing pressure. It would be unwise to extend these few data to other materials without further confirming measurements. Some impact test data as a function of pressure are available but considerably more are needed. These show, but not clearly, an increasing sensitivity with pressure. Flash and fire point data also show an increased sensitivity for non-metals at higher pressures.

Equipment for the handling and storage of high pressure oxygen, both liquid and gas, is readily available. In some instances it is necessary to specify the elimination of marginal materials. This presents a problem only if a better substitute material is not yet available. Equipment manufacturers are eager to cooperate in fabrication of more reliable components.

Present high pressure compatibility testing facilities are restricted nearly totally to NASA-WSTF and MSFC. Commercial laboratories have performed various compatibility tests in the past but generally not above about 3600 psi.

It is recommended that NASA extend specific experimental tests to higher pressures, establish standard tests and reference materials, perform statistical analyses of existing data, develop material ranking lists, and encourage new test methods and fundamental research.

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## APPENDIX I - HIGH PRESSURE OXYGEN COMPATIBILITY DATA

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					PURE METALS	10				
sterance	Materials	Test Pressure (pai)	Ignition Temp. (K)	Test Temp. (K)	Mechanical Impact Energy Reaction (kg m) Rate	Pneumatic Impact Reaction Rate	Specimen Thickness (in)	Flash Point (K)	Fire Point (K)	Envi ronment
kowsky d Batzier 923)	Capper	15 400 800 1200 1600 2000	1325 11100 11100 11100 11100							88888888888888888888888888888888888888
<b>L</b>	e un	15 400 800 1200 1600 2000	1210 1120 1050 980 980 870							X X X X X X X X X X X X X X X X X X X
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Reference	Materiale	Test	Ignition	Test	Mechanic	al Impact	Praumatic	Specimen	Flack	Fire	Environment
		Fressure (psi)	Temp. (K)	Temp. (X)	(u By)	Reaction Rate	Impact Reaction Rate	(ai)	(K)	(K)	
Anatia	Alumiaun	100		8	101	3/7	-	. 032			XOI
(22.61)	6061-T6	001		06	2	16/20		. 032			LOX L
		100		06	7.4	4/20		. 032			XOT
		100		06	10	0/20		. 063			TOX
		100		96	10	0/20		. 063			rox
		205		<b>06</b>	10	0/20		. 063			<b>ГОХ</b>
		- 500		96	10	0/20		. 063			гох
••••		0001		6	0	07/D		. 063			XOI
•		1500		96	10	0/20		. 065			rox
× 、		50		300	10	0/20		. 032			GOX
		100		300	10	9/20		. 037			GOX
		100		300	10	0/20		. 032			GOX
· · · · · · · · · · · · · · · · · · ·		500		300	10	6/20		. 032			COX
•		500		300	10	0/20		. 032			GOX
·		500		300	10	0/6		. 032			GOX
		1000		300	10	0/20		. 032			GOX
•		1000		300	10	9/0		. 032			GOX
Anatin	Alminum	200		96	10	3/20		. 063			TOX
1261	2014-T6	1000		6	-	0/23		. 063			rox
	, , ,	1000		06	ŝ	0/20		. 063			LOX
**		1400		6	'n	6/20		. 063			rox
, '.		100		06	10	0/20		060.			TOX
		<u>5</u>		96	01	0/20		. 090			TOX
	•	1400		96	ŝ	0/20		060.			TOX
, , , , , , , , , , , , , , , , , , ,		250		300	10	0/20		. 063			GOX
· · · · ·		200		300	01	0/20		. 063			GOX
· · · ·		260		300	ŝ	6/20		. 063			GOX
		500		300	9	0/20		. 063			COX COX
	,	500		300	9	0/20		. 063	•		SOX
		500		8	10	0/20		. 0(3			GOX
	•	500		300	9	0/20		. 063			GOX
		500		300	9	2/20		. 063			50X
		1000		300	20	2/3		. 063			GOX
		1000		300	ŝ	2/20		. 063			KON KON
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Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Teat Temp. (K)	Mechanic Energy 1 (kg m)	al Impact Reaction Rate	Pneumatic Impact Reaction Rate	Specimen Thickness (in)	Flach Point (K)	Fize Point (K)	Envi ronment
Austin	Aluminum	50		06	10	0/20		. 063			TOX
(2261)	2219-T87	100		<b>0</b> 6	10	0/20		. 063			TOX
		500		06	10	1/2		. 063			TOX
		1000		6	7.62	0/20		. 063			LOX
		1000		90	5.54	0/20		. 063			LOX
		500		ő,	10	0/20		020 .			TOX
		500		90	10	0/20		060 .			LOX
		500		300	10	0/20		. 063			COX
		500		300	5.54	0/20		. 063			GOX
		1000		300	10	1/3		. 063			GOX
-		1000		300	7.62	0/20		. 063			GOX
		1000		300	5.54	0/20		. 063			COX
``		0001		300	ŝ	0/20		. 063			<b>C</b> OX
· ·		1400		300	10	1/2		. 063			<b>S</b> CX
		1400		300	9.02	0/20		. 063			GOX
		1400		300	7.62	0/20		. 063			GOX
		1400		300	5.54	07/0		. 063			COX
Austin	Ferrons Allov	100		90	9	0/20		. 020			TOX
(21911	A286	500		06	10	0/20		. 020			TOX
		1000		60	10	0/20		. 020			TOX
, <i>*</i> * '	•	1500		96	10	0/20		. 020			TOX
		100		96	10	0/20		. 050			LOX
		500		8,	10	0/20		. 050			rox
		1000		06	16	0/20		. 050			rox
•	,	1500		8	01	0/20		. 050			LOX
		<b>100</b>		300	10	0/20		. 020			GOX
• • •		500		300	10	0/27		. 020			GOX
 		1000		300	10	2/20		. 020			COX
		1000		300	10	0/20		. 020			COX
- ,		1000	å	300	9.02	07/0		. 020			COX
•		1500	-	300	10	8/20		. 020			GOX
• • •		1500		300	9.02	4/20		. 020			GOX
		1500		300	8.34	0/20		. 020			GOX
		1500		300	7.62	0/20		. 020			COX

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Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechanic Energy ( <sup>kg m</sup> )	tal Impact Reaction Rate	Pneumatic Impact Rraction Rate	Specimen Thickness (in)	Flash Point (K)	Fire Point (K)	Environment
Anstin	304 Stainless	15		06	10	0/30		063			ΓOX
12251)	Steel	15		06	10	0/20		.063			TOX
•		100		06	10	0/20		.063			ТОХ
		500		6.6	10	0/20		.063			TOX
		1000		06	10	0/20		. 063			TOX
		1500		06	10	0/20		. 063			TOX
		15		06	10	0/20		. 090			GOX
		100		300	10	0/20		060			GOX
		500		300	10	0/20		060.			GOX
		0001		300	10	02/0		060.			COX
		1500		300	10	2/20		060.			20X
		1500		300	9.02	0/20		040.			COX
		1500		300	8.34	0/20		060.			COX
Austin	PH 15-7	100		06	01	0/20		. 030			гох
(22.61)	Stainless	50n		06	10	0/20		. 030			тох
•	Steel	0001		06	10	3/20		030			TUX
		1000		06	9.02	0720		. 030			TOX
		1000		90	8.34	0/20		. 030			rox
x		1500		06	10	5/20		. 030			TOX
		1500		06	9.02	0/20		. 030			гох
		1500		96	8.34	0/20		. 030			LOX
		100		06	16	07/0		. 050			гох
		500		06	10	07,20		.050			TOX
		1000		06	10	2/20		.050			1.0X
		1500		06	10	3/20		.050			T.OX
		1500		06	9 02	0/20		, 050			XCI
		1500		06	8.34	0/20		000.			гох
		100		06	10	0720		060.			гох
¢.		500		06	01.	0/20		060			TOX
۰.		1000		06	10	0/20		0. -			TOX

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					ALLOYS CO.	nt.					
Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechanical Irr Energy Reac ( \g m)   Ra	npact crion ate	Pneumatic Impact Reaction Rate	Specimen Thickness (1.1)	Flash Point (K)	Fire Point (K)	Environment
Austin	Hd 1-71	15		06	10 2/2	20		. 030			TOX
(22.61)	Stainless Steel	15		<b>06</b>	10 0/	20		. 030			T XX
		0041		3.8	10 01	0 0		. 050			XO1.
		001		060	·/o	20		580. 240			
		0001		0.9				. 005 640			
		1500		06	10 0/2	20		. 063			
		15		06	10 0/2	20		. 070			TOX
		100		06	10 0/2	20		. 070			rox r
		500		06	10 0/2	20		. 070			хот
		1000		90	10 0/2	20		. 070			XU7
		1500		96	10 0/2	20		. 070			LOX
		100		300	10 0/2	20		. 030			GOX
		500		300	10 0/2	20		. 030			GOX
		1000		300	10 0/	20		.030			COX
		100		30.5	10 0/2	20		. 063			X09
		500		300	10 0/2	20		. 063			GOX
Austin	Stainless Steel	100		06	10 0/2	20		. 030			TOX
(1976)	21141-6Cr-9Mix	500		96	10 0/2	20		. 030			TOX
		1000		06	10 0/2	20		0:0.			TOX
		1500		06	10 0/	50		. 020			TOX
		100		06	10 0/	20		. 063			тох
		500		06	10 01	20		. 063			LOX
		1000		06	10 0/	20		. 063			TOX
		1500		06	10 0/2	20		. 063			TOX
		100		60	10 01	20		. 085			TOX
		500		06	10 01	20		. 085			TOX
		1000		96	10 0/	23		. 085			TOX
		1500		90	10 0/	<u>,</u> 0		. 085			TOX
		100		300	10 0/2	20		. 031			COX
		500		300	10 0/2	20		. 031			COX
-		1000		300	·/0 01	20		. 031			GOX
		1500	•	300	10 0/2	20		. 031			COX
Austia	Steinless Steel	100		90	10 01	20		. 050			гох
(2261)	22Ni-13Cr-5Ma	500		06	10 0 <u>/</u> 2	20		. 050			TOX
•		1000		06	10 0/2	20		. 050			TOX
		1500		0ó	10 0/2	20		. 050			TOX
		100		300	10 0/2	20		.050			GOX
		500		300	10 0/2	20		040.			GOX
		0001	e ji	300	10 0/2	20		. ሮ50			GOX
		1500		300	10 0/2	20		. 050			GOX

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Reference	Materials	Test	Ignition	Test	Mechani	ical Impact	Pneumatic	Specinian	Flash	Fire	<sup>1</sup> , nviron ment
		Pressure	Temp	Temp.	Enerev	Reaction	Impact	Thickress	Point	Point	
		(þsi)	(K)	(K)	(kg m)	Rate	Reaction Rate	(ri)	(K)	(K)	
•••••	Harmen aller	100		UB	10	04/0		063			1 0X
Austur	107 alloy	001		00		02/0		. 202			
. 77 (1)		0001		06		07/0		. 063 1630			10%
		1500		Q b		0/10		063			XC
		100		0.6	2	0/20		060			TOX
		500		00	2 -	02/0		060			
		006		06		0/20		060			
		001			2			000			
		1500		06	10	0/20		060.			L'OX
		100		300	10	0720		. 063			GOX
		500		300	10	0/20		. 063			GCX
		1000		300	10	0/20		.063			XOD
		1500		300	10	0/20		. 063			GOX
		100		300	10	0/70		060.			GOX
		500		300	10	0/20		060.			GOX
		1000		300	10	0/20		060.			GOX
		1500		300	10	0/20		060.			GOX
Austin	301 Stainless	100		9.0	01	0/20		125			
12721	Steel	500		06	0	0/20		125			TOX
		1000		00	91	0/20		125			
		1500		06	01	0/20		. 125			TOX
		100		300	01	0/20		. 125			COX
		500		300	10	0/20		. 125			GOX
		1000		0رد	10	0/20		. 125			GOX
		1500		300	01	0/20		. 125			COX
Austi.	Inconel 600	15		0ó	01	0/20		.031			rox
(1972)		15		06	01	0/211		. 631			LOX
•		15		60	10	07/S		. 090			LOX
		100		300	10	0 ž,′u		031			SOX
		500		300	10	0. <u>0</u>		. 031			GOX
		1000		300	10	(2/6		. 031			xc c
		1500		300	10	0/21		.031			GOX
		100		300	10	0,20		. 063			GOX
		500		300	10	0/20		. 063			GOX
		1000		300	10	0/20		. 063			GOX
		1500		300	10	0/20		. 063			NON
		100		300	10	c /20		. 093			COX
		500		300	10	0/20		. 693			GOX
•		1000		300	10	0/20		. 093			GOX
		1500		300	10	u/20		٤ 60 .			GOX

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	Metalo	Tot	1								
units follow	6 THE 1 3 19 TAT	Dressing	Temp	1 e a l	Formanic	at impact	incuraci	Speciments Thisbanes	Puint.		Fustronment
		(psi)	(K)	(X)	(kg m)	Cate:	Reaction Rate	(in)	(X)	(K)	
Austin	Inconel 718	50		07	01	0/20		175			~~~
(21972)		100		06	10	0/20		. 125			
		500		06	10	0/20		. 125			rox L
		0001		06	10	0/20		. 125			TOX
		1500		06	10	0/20		. 125			TUX
		500		360	10	0/20		. 063			COX
		Ω,		300	10	0/20		. 125			COX
		101		500	10	n/20		. 125			COX
	-	F 00		300	10	0/20		. 125			COX
		1000		300	10	0/20		. 125			COX
		1500		300	10	0/211		. 125			COX
		10000			10	0/20		. 012			COX
Austin	Inconel 750	100		06	10	0/20		290			201
(1972)		500		0 b	0	0/20		290			
		1000		06	2 2	0/20		0.62			
		1500		06	01	0/20		0.62			
		100		300	01	0/20		062			XO2
		500		300	01	0/20		062			
		1000		300	2	0/20		062			
		1500		300	10	0/20		. 062			XOD COX
				á							
Austin	Monel 400	2 :		06 06	01	0/20		160.			гох
(2261)		15		06	10	0/20		. 063			гох
		100		300	10	0/20		. 031			GOX
		500		300	10	0/20		. 031			COX
		000		300	10	0/20		. 031			GOX
		1500		300	10	2/20		. 031			GOX
		1500		300	a. 02	0/20		. 031			GUX
		1500		300	9.02	0/20		. 031			:00 :00
		1500		300	8.34	0/20		. 031			COX
		1500		300	8.34	07/0		. 031			GOX
		100		300	10	0/20		. 062			GOX
		500		300	10	0/20		. 062			COX
		1000		300	13	0/20		. 062			GOX
		1500		300	10	3/20		. 062			COX
		1500		300	9.62	0/20		. 062			GOX
		1500		300	8.34	0/20		. 062			GOX
		100		300	1C	0/20		060.			GOX
Austin	Inconel 625	10000		420	10	0/20		. 05			GOX
(2/61)	K-Monel	10000		300	10	0/20		. 05			GOX
Ξ	Incomel 718	10000		100	2	06/0		30			200
	brazed with	10001		000	2	0720		50.			, COX
:	Nicrobraze all										
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Furd Point (A)	
Flash Point (K)	
Spreumen T'Eckness (11)	
Pheumatic Impact Reaction Rate	
Mechanical Impact Energy Reaction (kg m) Rate	
Test Tenp. (K)	
Igaition Temp. (K)	11130 11130 11130 11130
Test Pressure (psi)	15 800 1600 2000 2000
Materials	Brass
eference	akowsky and Butzler(1923)

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leference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechani Ënergy (kgm)	Rate Rate	Pneumatic Impact Reaction Rate	Specimen Phickness (in)	Flach Point (K)	Fire Point (K)	Environment
lamison 19701	Fluorel 1059	2000		297	2.8	0/12					GOX
ippen and	Fluorel	٤Û							668	None	COX
tradling		25							680	728	COX
(1671)		50							645	700	COX
		50							:85	581	COX
		100							548	548	COX
		200							506	506	COX
		1000							506	506	COX
		0000							505 404	505	
	:	2									
1062-1	Polychloro-										õ
1 0 6 8 h	ethulon -	4000	002								202
Inon(1	(CTFE)	000	007								XOU V
											XOD
amíson	KEL.F										
(026)	Bar Stock	2000		562	1.4	0/18					COX
hippen and	KEL-F-81	S							745	None	COX
tradling		25							69н	None	COX
(126)		50							693	724	GOX
		500							639	639	GUX
,		1000							647	647	GOX
	•	1500							643	643	COX
		2000							647	647	NON
(cDuald	CTFE	3800	685								COX
17 (6)  arcani  060-1	Polytetra-										
(2004)	sthvjene										
	(Teflon)(TFE)	4025	735								GOX
anvison 2020	TFE	2000		289	2.8	0/21					<b>C</b> UX
	TFE tubing	2000		286	1.4	0/21					COX
	âmont										

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HALOGENATED COMPOUNDS cont.

Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechanical Impact Energy'Reaction (kg m) , Rate	Pneumatic Impact Reaction Rate	Specimen Thickness (in)	Flash Poirt (K)	Fire Point (K)	Eavironment
Pippen and Stradling (1971)	Glass Filled Teflon	500 1000 2500			1/1 + 1/1 1.4	0/4				60X 60X 60X
<b>2</b>	Tellon	55 50 500 200						Noute 741 754 735 733	None Nuna None 735 735	X X X X X X X X X X X X X X X X X X X
		500 1500 2 5						707 645 637 660		X X X X X 0 0 0 0 0 0
z	Virgin Teflon Sheet	4000 4500 5000			.34 0/4	0/4 4/4				00X 00X 00X
Jarniaon (1970)	T-EMS372 (J.L. Dore)	2000		289	1.4 0/21					COX

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Fature         Tenp.         Tenp. <t< th=""><th>Pertor         Terrp.         Terrp.         Terrp.         Terrp.         Pertor         Terrp.         Pertor         Terrp.         Pertor         Point           Amin. (1972)         Eneror         10         00         11         101         101         101         101         101           Amin. (1972)         Eneror         100         00         11         0/20         110         101         101           100         000         11         0/20         11         0/20         110         101           100         000         11         0/20         11         0/20         110         101<!--</th--><th>Reference M</th><th><b>laterials</b></th><th>Test</th><th>Ignition</th><th>Test</th><th>Mechar</th><th>rical Impact</th><th>Pneurvatic</th><th>Specinien</th><th>Flash</th><th>Fire</th><th>Environ ment</th></th></t<>	Pertor         Terrp.         Terrp.         Terrp.         Terrp.         Pertor         Terrp.         Pertor         Terrp.         Pertor         Point           Amin. (1972)         Eneror         10         00         11         101         101         101         101         101           Amin. (1972)         Eneror         100         00         11         0/20         110         101         101           100         000         11         0/20         11         0/20         110         101           100         000         11         0/20         11         0/20         110         101 </th <th>Reference M</th> <th><b>laterials</b></th> <th>Test</th> <th>Ignition</th> <th>Test</th> <th>Mechar</th> <th>rical Impact</th> <th>Pneurvatic</th> <th>Specinien</th> <th>Flash</th> <th>Fire</th> <th>Environ ment</th>	Reference M	<b>laterials</b>	Test	Ignition	Test	Mechar	rical Impact	Pneurvatic	Specinien	Flash	Fire	Environ ment
Antila (1972)         Electrontina         101         90         1.4         0.20           200         100         90         1.4         0.20         1.00           100         90         1.4         0.20         1.00         1.00           100         90         1.1         0.20         1.00         1.00           100         90         1.1         0.20         1.00         1.00           100         90         1.1         0.20         1.00         1.00           100         90         1.1         0.20         900         1.00         1.00           1900         900         1.1         0.20         900         1.1         0.20         1.00           1900         900         1.1         0.20         900         1.1         0.20         1.00           1900         900         1.1         0.20         900         1.1         0.20         1.00           1900         900         1.1         0.20         900         900         1.1         0.20         1.00           1900         900         1.1         0.20         900         900         1.1         0.20         1	Antha (1972)         Electroctim         10         9         1.4         0.20           2106         100         90         1.4         0.20         1.14         0.20           100         100         1.14         0.20         1.14         0.20         1.14         0.20           100         100         1.14         0.20         1.14         0.20         1.14         0.20           1000         100         1.14         0.20         1.14         0.20         1.14         0.20           1000         100         1.14         0.20         1.14         0.20         1.14         0.20           1000         100         1.14         0.20         1.14         0.20         1.14         0.20           1000         100         1.14         0.20         1.14         0.20         1.10         1.10         1.10         1.10         1.10         1.14         0.20         1.11         0.20         1.11         0.20         1.10         1.10         1.10         1.11         0.20         1.11         0.20         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1.10         1			Pressure (psi)	Temp. (K)	Temp. (K)	Energ (kg m	(y Reaction )  Rate	, Impiict Reaction Rate	Thickness (in)	Point (K)	Point (K)	
2306         300         301 <th>2364         500         90         114         910           1000         100         100         100         100           1000         100         100         100         100           1000         100         100         100         100           1000         100         100         100         100           1000         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         <t< th=""><th>Austin (1972) Ele</th><th>ectrofilm</th><th>100</th><th></th><th>06</th><th>1.4</th><th>0/20</th><th></th><th></th><th></th><th></th><th>TOX</th></t<></th>	2364         500         90         114         910           1000         100         100         100         100           1000         100         100         100         100           1000         100         100         100         100           1000         100         100         100         100           1000         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100         100         100         100         100           1100 <t< th=""><th>Austin (1972) Ele</th><th>ectrofilm</th><th>100</th><th></th><th>06</th><th>1.4</th><th>0/20</th><th></th><th></th><th></th><th></th><th>TOX</th></t<>	Austin (1972) Ele	ectrofilm	100		06	1.4	0/20					TOX
100         90         14         920           100         90         14         920           100         90         14         920           100         90         14         920           100         90         14         920           100         90         14         920           100         90         14         920           100         90         14         920           110         90         11         920           110         90         11         920           110         90         11         920           110         90         11         920           110         90         11         920           110         90         11         920           1100         90         11         920           1100         90         11         920           1100         90         11         920           1100         90         11         920           1100         90         11         920           1100         90         11         920           <	1000         90         114         920           1000         90         114         920           1000         900         114         920           1000         900         114         920           1000         900         114         920           1000         900         114         920           1900         900         114         920           1900         900         114         920           1900         900         114         920           1900         900         114         920           1900         900         114         920           1900         900         114         920           1900         900         114         920           1000         900         114         920           1000         900         900         900         900           1000         900         900         900         900           1000         900         900         900         900           1000         900         900         900         900           1000         900         900         900 </td <th>23(</th> <th>90</th> <th>500</th> <td></td> <td>06</td> <td>1.4</td> <td>0/20</td> <td></td> <td></td> <td></td> <td></td> <td>гох</td>	23(	90	500		06	1.4	0/20					гох
150         30         1,4         2,0           100         300         1,4         2,0           100         300         1,4         2,0           100         300         1,4         2,0           100         300         1,1         2,0           100         300         1,1         2,0           100         300         1,1         2,0           100         300         1,1         2,0           100         300         1,1         2,0           100         300         1,1         2,0           100         300         1,1         2,0           100         300         1,1         2,0           100         300         1,1         2,0           100         301         1,1         2,0           100         301         1,1         2,0           100         301         1,1         2,0           100         301         1,1         2,0           100         301         1,1         2,0           100         301         1,1         2,0           1000         301         1,1         2,0	100         30         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           100         300         1.1         7.2           110         300         1.1         7.2           110         90         90         1.1         7.2           1100         90         90         1.1         7.2           1100         90         90         1.1         7.2           1100         90         90         1.1         7.2           1100         90         90         1.1         7.2           1100         90         90         1.1			1000		06	1.4	0/20					TOX
100         300         1.4         9.20           1000         300         1.4         9.20           1000         300         1.4         9.20           1000         300         1.4         9.20           1000         300         1.4         9.20           1000         300         1.4         9.20           1000         300         1.4         9.20           1000         300         1.4         9.20           1000         300         1.4         9.20           1000         300         1.4         9.20           2396         90         1.4         9.20           1000         90         1.4         9.20           1000         90         1.4         9.20           1000         90         1.4         9.20           1000         90         1.4         9.20           1000         90         1.4         9.20           1000         90         1.4         9.20           1000         90         1.4         9.20           1000         90         1.4         9.20           1000         90	100         101         100           100         11         7/2           <			1500		06	1.4	0/20					TOX
500         300         14         9/0           1000         300         1.4         9/0         300         1.4         9/0           1000         300         1.2         9/0         300         1.4         9/0         300         1.4         9/0           1000         300         1.1         9/0 <th>500         500         114         9/20           1000         500         114         9/20           1000         500         114         9/20           1000         500         112         9/20           1000         500         112         9/20           1000         500         110         9/20           1000         500         110         9/20           1000         900         111         9/20           1000         900         111         9/20           1000         900         111         9/20           1000         900         111         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900<th></th><th></th><th>100</th><th></th><th>300</th><th>1.4</th><th>0/20</th><th></th><th></th><th></th><th></th><th>XOU</th></th>	500         500         114         9/20           1000         500         114         9/20           1000         500         114         9/20           1000         500         112         9/20           1000         500         112         9/20           1000         500         110         9/20           1000         500         110         9/20           1000         900         111         9/20           1000         900         111         9/20           1000         900         111         9/20           1000         900         111         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900         114         9/20           1000         900 <th></th> <th></th> <th>100</th> <th></th> <th>300</th> <th>1.4</th> <th>0/20</th> <th></th> <th></th> <th></th> <th></th> <th>XOU</th>			100		300	1.4	0/20					XOU
100         300         1.4         9.70           1000         300         1.4         9.70           1000         300         1.1         9.70           1000         300         1.1         9.70           1000         300         1.1         9.70           1000         300         1.1         9.70           1000         300         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900         1.1         9.70           1000         900 <th>1000         2000         144         720           1000         2000         114         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000<!--</th--><th></th><th></th><th>500</th><th></th><th>300</th><th>1.4</th><th>0/20</th><th></th><th></th><th></th><th></th><th>COX</th></th>	1000         2000         144         720           1000         2000         114         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000         111         720           1000         2000 </th <th></th> <th></th> <th>500</th> <th></th> <th>300</th> <th>1.4</th> <th>0/20</th> <th></th> <th></th> <th></th> <th></th> <th>COX</th>			500		300	1.4	0/20					COX
Image: Second	1000         300         1.2         2.20           1000         300         1.2         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300         1.1         2.20           1000         300 <th></th> <th></th> <th>1000</th> <th></th> <th>300</th> <th>1.4</th> <th>0/20</th> <th></th> <th></th> <th></th> <th></th> <th>COX</th>			1000		300	1.4	0/20					COX
Image: Second	1000         100         100         100           1900         11         0/20         11         0/20           1900         10         11         0/20         11         0/20           1900         10         11         0/20         11         0/20           1900         10         11         0/20         11         0/20           1900         11         0/20         11         0/20         11           1900         11         0/20         11         0/20         11           1900         11         0/20         11         0/20         11         0/20           1900         11         0/20         11         0/20         11         0/20           1900         11         0/20         11         0/20         11         0/20           1900         11         0/20         11         0/20         11         0/20           1900         11         0/20         11         0/20         11         0/20           1900         11         0/20         11         0/20         11         0/20           1900         100         11         0/20			1000		300	2	0/20					XON
Therrefine         100         11         4/10           1500         100         11         2/30         100         11         2/30           1500         100         11         2/30         100         11         2/30           2356         100         11         2/30         11         2/30         11         2/30           2000         100         11         0/10         11         0/10         11         0/10           2000         100         100         11         0/10         11         0/10         11         0/10           1000         100         100         11         0/10         11         0/10         11         0/10           1000         100         100         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         0/10         11         11         11         11         11         11         11	Electrofilm         300         11         4/20           1500         300         11         9/20           2396         100         90         11         9/20           2396         100         90         11         9/20           2396         100         90         11         9/20           2396         100         90         11         9/20           2396         90         90         11         9/20           2396         90         90         11         9/20           2396         90         90         11         9/20           1000         90         11         9/20         900           1100         90         11         9/20         900           1100         90         11         9/20         900           1100         90         11         9/20         900           1100         90         11         9/20         900           1100         90         11         9/20         900           1100         900         11         9/20         900           1100         900         11         9/20			1000		300	1.1	0/20					
1300         130 <th>1300         12         0/20           2396         10         300         12         0/20           2396         10         30         12         0/20           2396         100         30         12         0/20           200         90         14         0/20         90           100         90         14         0/20         90           100         90         14         0/20         90           100         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         90           1000         90         14         0/20         90         90           1000         90         14</th> <th></th> <th></th> <th>1500</th> <th></th> <th>300</th> <th>4.1</th> <th>4/20</th> <th></th> <th></th> <th></th> <th></th> <th>XOD</th>	1300         12         0/20           2396         10         300         12         0/20           2396         10         30         12         0/20           2396         100         30         12         0/20           200         90         14         0/20         90           100         90         14         0/20         90           100         90         14         0/20         90           100         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         100           1000         90         14         0/20         90         90           1000         90         14         0/20         90         90           1000         90         14			1500		300	4.1	4/20					XOD
Isoo         11         0/20           Thetrofin         100         11         0/20           Shetrofin         100         90         11         0/20           State         900         11         0/20         90         111         0/20           State         900         900         114         0/20         900         900         114         0/20           State         900         900         114         0/20         900         900         114         0/20           1000         900         114         0/20         900         114         0/20         900         114         0/20           1000         900         114         0/20         900         114         0/20         900         114         0/20           1000         900         114         0/20         900         114         0/20         900	Internetion         100         11         0/20           2396.1         100         11         0/20           2396.1         100         90         11.4         0/20           2396.1         100         90         11.4         0/20           200         90         11.4         0/20         90           1000         90         11.4         0/20         90           1000         90         11.4         0/20         90           1000         90         11.4         0/20         90         11.0           1000         90         11.4         0/20         90         11.0           1900         90         11.4         0/20         90         11.0         10.0           1900         90         11.4         0/20         90         11.0         10.0           1900         90         11.4         0/20         90         11.0         10.0           1900         90         11.4         0/20         90         10.0         10.0           1900         90         11.4         0/20         90         10.0         10.0         10.0           1900			1500		300	1.2	0/20					COX
Image: Sector of Inc.         10         90         1.4         0.20           2396         500         90         1.4         0.20           900         90         1.4         0.20         90         1.4           900         90         1.4         0.20         90         1.4         0.20           900         90         1.4         0.20         90         1.4         0.20           900         90         1.4         0.20         90         1.4         0.20           900         90         1.4         0.20         90         1.4         0.20           1900         90         1.4         0.20         90         1.4         0.20           1900         90         1.4         0.20         90         90         1.4         0.20           1900         90         1.4         0.20         90	Elsectrodita         10         90         1.4         0/20           2396         500         90         1.4         0/20           500         90         1.4         0/20           100         90         1.4         0/20           100         90         1.4         0/20           100         90         1.4         0/20           1000         90         1.4         0/20           1000         90         1.4         0/20           1000         90         1.4         0/20           1000         90         1.4         0/20           1000         90         1.4         0/20           1000         90         1.4         0/20           1100         90         1.4         0/20           1100         90         1.4         0/20           1100         90         1.4         0/20           1100         90         1.4         0/20           1100         90         1.4         0/20           1100         90         1.4         0/20           1100         90         1.4         0/20           10			1500		300	1.1	0/20					COX
2336         100         90         1.4         0/0           900         90         1.4         0/20         90         1.4         0/20           900         90         1.4         0/20         90         1.4         0/20           900         90         1.4         0/20         90         1.4         0/20           900         90         1.4         0/20         90         1.4         0/20           900         1.4         0/20         90         1.4         0/20         90         1.4         0/20           900         1.4         0/20         90         1.4         0/20         90         1.4         0/20           900         1.4         0/20         90         1.4         0/20         90         1.00         90         1.00         90         1.4         0/20         90<	2396         100         90         1.4         9/20           900         90         1.4         9/20           900         90         1.4         9/20           900         90         1.4         9/20           900         90         1.4         9/20           900         90         1.4         9/20           900         90         1.4         9/20           900         90         1.4         9/20           900         90         1.4         9/20           900         1.4         9/20         90           900         1.4         9/20         90           900         1.4         9/20         90           9100         900         1.4         9/20           900         1.4         9/20         900           900         1.4         9/20         900           900         1.4         9/20         900           900         1.4         9/20         900           900         1.4         9/20         900           900         1.4         9/20         900           900         900	" Ek	ectrofilm	100		90	1.4	0/20					1.0X
500     90     14     9/20       500     90     14     9/20       1000     90     14     9/20       1100     90     14     9/20       11500     90     14     9/20       11500     90     14     9/20       11500     90     14     9/20       11500     90     14     9/20       11500     90     14     9/20       11500     90     14     9/20       11500     90     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     900     14     9/20       1100     9	500         90         1-4         9/20           1000         90         1-4         9/20           1000         90         1-4         9/20           1500         90         1-4         9/20           1500         90         1-4         9/20           1500         90         1-4         9/20           1500         90         1-4         9/20           1500         90         1-4         9/20           1500         90         1-4         9/20           1600         90         1-4         9/20           1600         90         1-4         9/20           1600         90         1-4         9/20           1600         90         1-4         9/20           1600         90         1-4         9/20           1600         90         1-4         9/20           1600         90         1-4         9/20           1600         90         1-4         9/20           1900         1-4         9/20         9/20           1900         1-4         9/20         9/20           1900         1-4         9	235	96	100		06	1.4	0,20					TOX
500         90         1-4         0/20           1500         90         1-4         0/20           1500         90         1-4         0/20           1500         90         1-4         0/20           1500         90         1-4         0/20           1500         90         1-4         0/20           1500         90         1-4         0/20           1000         90         1-4         0/20           1000         90         1-4         0/20           1000         900         1-4         0/20           1000         900         1-4         0/20           1000         900         1-4         0/20           1000         900         1-4         0/20           1000         900         1-4         0/20           1000         900         1-4         0/20           1100         900         1-4         0/20           1100         900         1-4         0/20           1100         900         1-4         0/20           1100         900         1-4         0/20           1100         900	500         90         1-4         9/20           1900         90         1-4         9/20           1900         90         1-4         9/20           1900         90         1-4         9/20           1900         90         1-4         9/20           1900         90         1-4         9/20           1900         90         1-4         9/20           1900         900         1-4         9/20           1900         900         1-4         9/20           500         900         1-4         9/20           500         900         1-4         9/20           500         1-4         9/20         900           1900         900         1-4         9/20           1900         900         1-4         9/20           1900         900         1-4         9/20           1900         900         1-4         9/20           1900         900         1-4         9/20           1900         900         1-4         9/20           1900         900         1-4         9/20           1900         900		-	500		06	1.4	0/20					T.OX
Ioo         %         1.4         0/20           1000         %         1.4         0/20           1500         %         1.4         0/20           1500         %         1.4         0/20           1500         %         1.4         0/20           1500         %         1.4         0/20           1500         %         1.4         0/20           1600         %         1.4         0/20           1600         %         1.4         0/20           900         1.4         0/20         %           900         1.4         0/20         %           900         1.4         0/20         %           900         1.4         0/20         %           1900         %         1.4         0/20           900         1.4         0/20         %           1900         %         1.4         0/20           1900         1.4         0/20         %           1900         1.4         0/20         %           1900         1.4         0/20         %           1900         %         1.4         %	1000         3         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           500         9         1.4         0/20           500         9         1.4         0/20           500         9         1.4         0/20           500         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20           1900         9         1.4         0/20 <th>• - -</th> <th></th> <th>500</th> <td></td> <td>90</td> <td>1.4</td> <td>0/20</td> <td>-</td> <td></td> <td></td> <td></td> <td>I.OX</td>	• - -		500		90	1.4	0/20	-				I.OX
1000     90     1.4     0/20       1500     90     1.4     0/20       1000     90     1.4     0/20       1000     90     1.4     0/20       1000     90     1.4     0/20       1000     90     1.4     0/20       1000     90     1.4     0/20       1000     900     1.4     0/20       500     900     1.4     0/20       500     900     1.4     0/20       500     900     1.4     0/20       500     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20       1900     900     1.4     0/20	1000         90         1.4         0.20           1500         90         1.4         0/20           1000         90         1.4         0/20           1000         90         1.4         0/20           1000         90         1.4         0/20           1000         90         1.4         0/20           1000         900         1.4         0/20           500         900         1.4         0/20           500         900         1.4         0/20           500         900         1.4         0/20           1000         900         1.4         0/20           1000         900         1.4         0/20           1000         900         1.4         0/20           1000         900         1.4         0/20           1000         900         1.4         0/20           1000         900         1.4         0/20           1000         900         1.4         0/20           1000         900         1.4         0/20           1000         900         1.4         0/20           1000         90	• • • •		1000		<b>J</b> 6	1.4	0/20					I.OX
1500     90     1.4     0/20       1500     90     1.4     0/20       1600     300     1.4     0/20       100     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     1.4     0/20       500     1.4     0/20       500     1.4     0/20	1500     90     1.4     0/20       1500     90     1.4     0/20       100     300     1.4     0/20       100     300     1.4     0/20       100     300     1.4     0/20       100     300     1.4     0/20       100     300     1.4     0/20       100     300     1.4     0/20       100     300     1.4     0/20       100     300     1.4     0/20       100     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20       1900     300     1.4     0/20			1000		90	1.4	0/20					TOX
1500       90       1.4       0/20         100       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20         500       300       1.4       0/20 <td< th=""><th>1500     90     114     0/20       100     300     114     0/20       500</th><th></th><th></th><th>1500</th><th></th><th>06</th><th>1.4</th><th>0/20</th><th></th><th></th><th></th><th></th><th>X07</th></td<>	1500     90     114     0/20       100     300     114     0/20       500			1500		06	1.4	0/20					X07
100     300     1.4     0/20       500     1.4     0/20       500     1.4     0/20       500     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20 </th <th>100     300     11.4     0/20       500     1.4     0/20       5</th> <th></th> <th>J</th> <th>1500</th> <th></th> <th>06</th> <th>1.4</th> <th>0/20</th> <th></th> <th></th> <th></th> <th></th> <th>rox</th>	100     300     11.4     0/20       500     1.4     0/20       5		J	1500		06	1.4	0/20					rox
100         300         1.4         0/20         500 <th>100     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.2     5/20       500     300     1.2     5/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     1.4     0/20       500     1.4     0/20<!--</th--><th></th><th></th><th>100</th><th></th><th>300</th><th>1.4</th><th>0/20</th><th></th><th></th><th></th><th></th><th>COX</th></th>	100     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.4     0/20       500     300     1.2     5/20       500     300     1.2     5/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     90     1.4     0/20       500     1.4     0/20       500     1.4     0/20 </th <th></th> <th></th> <th>100</th> <th></th> <th>300</th> <th>1.4</th> <th>0/20</th> <th></th> <th></th> <th></th> <th></th> <th>COX</th>			100		300	1.4	0/20					COX
500     1,1     0/20       500     300     1,4     0/20       1000     300     1,4     0/20       1000     300     1,4     0/20       1000     300     1,4     0/20       1500     300     1,4     0/20       1500     300     1,4     0/20       1500     300     1,4     0/20       300     1,4	500     300     1     1     0/20       500     300     1     4     0/20       1000     300     1     4     0/20       1000     300     1     4     0/20       1500     300     1     4     0/20       1500     300     1     4     0/20       1500     300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       300     1     4     0/20       900     1     4     0/20       900     1     4     0/20       900     1     4     0/20       900     1     4     0/20       900     1     4     0/20       900     1     4     0/20       900     1     4     0/20	-		100		300	l.4	0/20					COX
500     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.4     0/20       7000     300     1.2     5/20       7000     300     1.2     5/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       7000     90     1.4     0/20       800     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20	500     1.4     0/20       1000     300     1.4     0/20       1900     300     1.4     0/20       1500     300     1.4     0/20       1500     300     1.4     0/20       1500     300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.2     5/20       300     1.2     5/20       300     1.2     5/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20	` -		500		300	1 +	0/20					COX
1000         300         1.4         0/20           1700         300         1.4         0/20           1700         300         1.4         0/20           1700         300         1.4         0/20           1700         300         1.4         0/20           1700         300         1.4         0/20           1700         300         1.4         0/20           1700         300         1.4         0/20           1700         300         1.2         5/20           1700         90         1.4         0/20           1700         90         1.4         0/20           1700         90         1.4         0/20           1800         90         1.4         0/20           1900         90         1.4         0/20           1900         1.4         0/20         90           1900         1.4         0/20         90           1900         1.4         0/20         90           1000         1.4         0/20         90           1000         1.4         0/20         90           1000         1.4	1000       300       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       6/20         300       1.4       6/20       300         1500       300       1.2       5/20         300       1.4       6/20       300         1500       300       1.2       5/20         300       1.4       0/20       300         1500       90       1.4       0/20         300       1.4       0/20       300         1100       90       1.4       0/20         1200       300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         1000       90       1.4       0/20         1000       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300 <th></th> <th></th> <th>500</th> <th></th> <th>360</th> <th>l.4</th> <th>0/20</th> <th></th> <th></th> <th></th> <th></th> <th>XOD</th>			500		360	l.4	0/20					XOD
1000       1.4       0/20         1500       1.4       0/20         1500       1.4       0/20         1500       1.4       0/20         1500       1.4       0/20         1500       1.4       0/20         1500       1.4       0/20         1500       1.1       0/20         1500       1.1       0/20         1500       90       1.1       0/20         900       1.1       0/20       90         900       1.1       0/20       90       1.4         1000       90       1.4       0/20       500         1000       90       1.4       0/20       500         1000       90       1.4       0/20       500         1000       1.4       0/20       500       500         1000       1.4       0/20       500       500         1000       1.4       0/20       500       500         1000       1.4       0/20       500       500         1000       1.4       0/20       500       500         1000       1.4       0/20       500       500 </th <th>1700       14       0/20         1500       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         300       1.1       6/20       300         1500       300       1.1       0/20         300       1.1       0/20       300         1100       90       1.1       0/20         900       1.4       0/20       90         1500       90       1.4       0/20         900       1.4       0/20       90         1500       90       1.4       0/20         900       1.4       0/20       90         1500       300       1.4       0/20         1000       300       1.4       0/20         1000       1.4       0/20       90         1000       1.4       0/20       90         1000       1.4       0/20       90         1000       1.4       0/20       90         1000       1.4</th> <th></th> <th></th> <th>1000</th> <th></th> <th>300</th> <th>1.4</th> <th>0/20</th> <th></th> <th></th> <th></th> <th></th> <th>XOD</th>	1700       14       0/20         1500       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         1500       300       1.4       0/20         300       1.1       6/20       300         1500       300       1.1       0/20         300       1.1       0/20       300         1100       90       1.1       0/20         900       1.4       0/20       90         1500       90       1.4       0/20         900       1.4       0/20       90         1500       90       1.4       0/20         900       1.4       0/20       90         1500       300       1.4       0/20         1000       300       1.4       0/20         1000       1.4       0/20       90         1000       1.4       0/20       90         1000       1.4       0/20       90         1000       1.4       0/20       90         1000       1.4			1000		300	1.4	0/20					XOD
1500     1.4     0/20       1500     1.4     0/20       1500     1.4     0/20       1500     1.1     6/20       1500     300     1.1     6/20       1500     300     1.1     6/20       1500     300     1.1     6/20       1500     300     1.1     0/20       1500     90     1.1     0/20       1500     90     1.1     0/20       1500     90     1.1     0/20       1600     90     1.1     0/20       1600     90     1.1     0/20       1600     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20       1000     1.1     0/20	1500     1.4     0/20       1500     1.4     0/20       1500     1.4     0/20       1500     1.4     0/20       1500     1.2     5/20       2406     500     90       11.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       90     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20       900     1.4     0/20			1000		300	1.4	0/20					GOX
1500       1.4       6/20         1500       1.1       6/20         1500       1.2       5/20         300       1.2       5/20         300       1.2       5/20         300       1.2       5/20         300       1.2       5/20         300       1.2       5/20         300       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         1000       300       1.4       0/20         1000       300       1.4       0/20         1000       1.4       0/20       600X         1000       1.4       0/20       60X         1000       1.4       0/20       60X	1500       14       6/20         1500       1.4       6/20         1500       1.2       5/20         1500       90       1.2       5/20         2406       500       90       1.4       0/20         90       1.4       0/20       90       1.4       0/20         90       1.4       0/20       90       1.4       0/20         900       1.4       0/20       90       1.4       0/20         900       1.4       0/20       90       1.4       0/20         900       1.4       0/20       90       1.4       0/20         900       1.4       0/20       90       1.4       0/20         900       1.4       0/20       90       1.4       0/20         900       1.4       0/20       900       1.4       0/20         900       1.4       0/20       900       1.4       0/20         900       1.4       0/20       900       1.4       0/20         900       1.4       0/20       900       1.4       0/20         900       1.4       0/20       900       1.4 <td< th=""><th></th><th></th><th>1500</th><th></th><th>300</th><th>l.4</th><th>0/20</th><th></th><th></th><th></th><th></th><th>X05</th></td<>			1500		300	l.4	0/20					X05
1500       300       1.2       5/20       GOX         2406       90       1.4       0/20       90       LOX         2406       90       1.4       0/20       90       LOX         2406       90       1.4       0/20       90       LOX         2406       90       90       1.4       0/20       1.00         90       1.4       0/20       90       1.4       0/20         1000       90       1.4       0/20       90       1.14       0/20         1000       90       1.4       0/20       90       1.4       0/20         1000       90       1.4       0/20       90       1.4       0/20         1000       300       1.4       0/20       900       1.4       0/20         1000       300       1.4       0/20       900       1.4       0/20         1000       300       1.4       0/20       900       1.4       0/20         1000       300       1.4       0/20       900       1.4       0/20         1000       300       1.4       0/20       900       1.4       0/20 <t< th=""><th>1500       300       1.2       5/20       GOX         2406       500       90       1.4       0/20       GOX         2406       500       90       1.4       0/20       GOX         1000       90       1.4       0/20       90       LOX         2406       90       1.4       0/20       90       LOX         1100       90       1.4       0/20       90       LOX         1200       90       1.4       0/20       90       LOX         1000       90       1.4       0/20       90       LOX         1500       90       1.4       0/20       90       LOX         1000       90       1.4       0/20       90       LOX         1000       300       1.4       0/20       90       90         1500       300       1.4       0/20       90       90         1500       1.4       0/20       90       90       90         1500       1.4       0/20       90       90       90         1500       1.4       0/20       90       90       90         1500       1.4       <td< th=""><th></th><th></th><th>1500</th><th></th><th>300</th><th>1.4</th><th>6/20</th><th></th><th></th><th></th><th></th><th>GOX</th></td<></th></t<>	1500       300       1.2       5/20       GOX         2406       500       90       1.4       0/20       GOX         2406       500       90       1.4       0/20       GOX         1000       90       1.4       0/20       90       LOX         2406       90       1.4       0/20       90       LOX         1100       90       1.4       0/20       90       LOX         1200       90       1.4       0/20       90       LOX         1000       90       1.4       0/20       90       LOX         1500       90       1.4       0/20       90       LOX         1000       90       1.4       0/20       90       LOX         1000       300       1.4       0/20       90       90         1500       300       1.4       0/20       90       90         1500       1.4       0/20       90       90       90         1500       1.4       0/20       90       90       90         1500       1.4       0/20       90       90       90         1500       1.4 <td< th=""><th></th><th></th><th>1500</th><th></th><th>300</th><th>1.4</th><th>6/20</th><th></th><th></th><th></th><th></th><th>GOX</th></td<>			1500		300	1.4	6/20					GOX
Electrofilm         100         90         1.4         0/20         90         90         1.4         0/20         90         90         1.4         0/20         90         90         90         1.4         0/20         90         90         90         90         90         90         90         90         90         90         90         90         90         90         90         90 <t< th=""><th>Electrofilm       100         2406       500         2406       90         114       0/20         90       11.4         1200       90         114       0/20         90       11.4         100       90         1100       90         1100       90         1100       90         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1110       11.4         1110       11.4         1110       11.4         1110</th><th></th><th></th><th>1500</th><th></th><th>300</th><th>1.2</th><th>5/20</th><th></th><th></th><th></th><th></th><th>GOX</th></t<>	Electrofilm       100         2406       500         2406       90         114       0/20         90       11.4         1200       90         114       0/20         90       11.4         100       90         1100       90         1100       90         1100       90         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1100       11.4         1110       11.4         1110       11.4         1110       11.4         1110			1500		300	1.2	5/20					GOX
2406       500       90       1.4       0/20       L0X         1000       90       1.4       0/20       1.4       0/20         1000       90       1.4       0/20       1.4       0/20         1000       90       1.4       0/20       1.4       0/20         1000       90       1.4       0/20       1.4       0/20         100       300       1.4       0/20       1.4       0/20         100       300       1.4       0/20       1.4       0/20         1000       300       1.4       0/20       1.4       0/20         1500       300       1.4       0/20       1.4       0/20         1500       1.4       0/20       1.4       0/20       1.4	2406       500       90       1.4       0/20         1000       90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         90       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20         900       1.4       0/20	13 II	ectrofilm	100		60	Ι.4	0/20					гох
1000     90     1.4     0/20       1500     90     1.4     0/20       300     1.4     0/20       500     300     1.4     0/20       300     1.4     0/20       100     300     1.4     0/20       100     1.4     0/20       300     1.4     0/20       100     300     1.4     0/20       100     1.4     0/20       300     1.4     0/20       100     1.4     0/20       300     1.4     0/20       300     1.4     0/20       1500     300     1.4     0/20	1000       90       1.4       0/20         1500       90       1.4       0/20         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       500         300       1.4       0/20       50	24(	06	500		96	1.4	0/20				-	КОТ
1500     90     1.4     0/20       100     300     1.4     0/20       500     300     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20       700     1.4     0/20	1500       90       1.4       0/20         100       300       1.4       0/20         500       300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20         300       1.4       0/20			1000		06	I.4	0/20					TOX
100         300         1.4         0/20         GOX           500         300         1.4         0/20         GOX           1000         300         1.4         0/20         GOX           1000         300         1.4         0/20         GOX           1000         300         1.4         0/20         GOX           1500         300         1.4         0/20         GOX	100     300     1.4     0/20       500     300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20	· · · ·		1500		06	1.4	0/20					LUX
500         300         1.4         0/20         GOX           1000         300         1.4         0/20         GOX         GOX           1500         300         1.4         0/20         GOX         GOX         GOX	500     300     1.4     0/20       1000     300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20       300     1.4     0/20	· · · · ·		100		300	1.4	0/20					COX
1000         300         1.4         0/20         GOX           1500         300         1.4         0/20         GOX	1000 300 1.4 0/20 GOX GOX GOX	· · ·	•	500		300	1.4	0/20					COX
GOX 1500 300 1.4 0/20 GOX	200 <b>1.4</b> 0/20 GOX		÷,	1000		300	1.4	0/20					GOX
				1500		300	1.4	0/20					GOX
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Reference	Mater.als	Test Pressure	Ignition Temp.	Test Temp.	Mechanic Energy 1	al Impact Reaction	Pneumatic Impact	Specimen Ihickness	Flash Point	Fire Point	Encironment
		(isci)	(K)	(K)	(kg m)	Rate	Reaction Rate	(in)	(N)	(K)	
Austin(1972)	Epoxy	15		<b>06</b>	÷	20/20		. 050			FOX
	Fiberglass	15 25		06	1.1	20/20		, 050			LOX
		15		06	0.48 0.48	20/20		050			
		15		06	0.19	4/20		. 050			FOX
		15		06	C. 094	2/20		. 050			LOX L
		100	•	300	1.4	15/20		. 050			GOX
		100		300	1.1	20/20		. 05r			GOX
		100		300	0.76	5/20		. 050			COX
		001		005	0.01	02/2		. 050			COX
		001		300	0.48	0/20		050			
		500		300	0.67	2/5		. 050			COX COX
		500		300	0.57	0/20		. 050			GOX
		1500		300 300	0.57	1/1		. 050			XOD
Pippen and	Gemon 3010	4000			1.4	0/4	0/4				UOX COX
Stradling (1971)	Polymide laminate	4500			L.4	1/3	1/0				COX.
Guter(1967)	German Buna	15	737								COX
Pippen and	SUIL DIACK	750	588 622								COX COX
Stradling	Glass Fabric	5000			1.4	0/4					COX
(17.41) Samison (1970)	Lexan 1100 {Polycarbonate)	2000		297	2.8	0/22					COX
	Nylon	2000		562	2.8	12/0					COX
Gater(1967)	Nylon	750 1500 2625 3750	601 522 461 492								X X X X X X X X X X X X X X X X X X X
Pippen and Stradline	Nylon Sheet	υ <b>τ</b>							665	None	GOX
{1771}		50							664	664 664	xox rox
		50 100							570 540	570	COX
,		500							507	507	x 22 0 0
		1087							494	494	GOX
<b>i.</b>		-									

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Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Text Temp. (K)	Mechanical Inpact Energy Reaction (kg m) Rate	Pneumatic Impact Reaction Rate	Specimen Thickness (in)	Flash Point (K)	Fire Point (K)	Envi ron <b>ment</b>
McQuaid(1972	) Nyion '66' (Valve Seat)	2400	458							GOX
2	Nylon '66'	200	575							хор
Guter(1967)	Perpex Block	750	562							COD
	and Shavings	1500	557							XOD XOD
· .		3750	497 497							X NO
	Dolandulane	2525	452							GOX
1968a)		2400	449							COX
		2350	449							COX
		750	452							COX
		325 375	457.5							
		250	>740.5							GOX
	-	250	<b>&gt; 6</b> 99							GOX
					·					
Ŧ	-vlog #ct									
ţ	ethylene 200 riber									
	- Ilass	2350	458							COX
· · · · · · · · · · · · · · · · · · ·										
dar sam	85% Polymide	3350	618							COX
(sgr/61)	15% Graphite	~								
S. bivinghame	r Polymide #3	50 100			0 29%					COX COX
		503			100%					XOU
•					9/ 001					
Marzani	Polymide	3350	620							COX
McQuaid(1972	) Półymide	3375	622							C;OX
Gate (1967)	Polythene	750	508							COX
		1500	478							COX
	-	2625	444							XOU
	•	3000	476							× OD
· · · · ·										
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			and the second					A well for a set of		
								No. of the second se	ALL BURNESS	
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NON-HALOGENATED PLASTICS cont.

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No. Contraction

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Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechanical Impact Energy Reaction (kg m) Rate	Pneumatic Impact Reaction Rute	Specimen Thickness (in)	Flash Point (K)	Furc Point (A)	F nu roument
Mar zani (1968a)	Polyvinylıdene Fluoride	2975	560							SOD ,
	Polyurethanc	2725	560							GON
<b>F</b> . ,	Poiyurethane Foam, Renti- culated	2650	491							GOX
=	Polyurethane Foam Renti- culatı d. Fire Retardant	, 2450	471							GOX
McQuaid (1972)	Polyurethane Foam, Renti- culated	2725	522							GOX
Marzani (1968a)	Polyurethane Foam. Fire Retardant	2450	471							GOX
Guter(1967)	Polyvinyl Alcobol {with H <sub>3</sub> PO <sub>4</sub> )	.750 1500 3375	695 728 593							00X 00X 00X 00X
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Polyvinyl Chloride (unulasticized)	15 750 1500 2625 3375	717 518 477 433							X X X X X X X X X X X X X X X X X X X
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				VII-NON	TOUT I THIN LOUD					
Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechanical Impact Energy Reaction (kg m) Rate	Pneumatic Inipact Reaction Rate	Specimen Thickness ( <b>in)</b>	Flash Point (K)	Fire Point (K)	Envi ronmen
Gater(1967)	Polyvinyl Chlo (plasticized)	ride 750 1500 3375	547 517 464							X X X C C C
2	Tufnol	750 1500 2625	5 <b>64</b> 521 444							COX COX COX
Jamison (1970)	Vespel (Polyanide)	2000 2000		297 297	2.8 2/38 1.4 0/42					COX
Pippen and Stradling (1971)	Vespel SP-1	20 22 20 2						No <b>ne</b> 722 722	None None None	60X 60X 60X
- -		50						755 724	755 724	COX COX
•		500 1000 1500 2000						658 619 588	658 619 588 533	8888 8888 8888 8888 8888 8888 8888 8888 8888
	Vespel SP-21	- <b>v</b> î						569	None	XON COX
ı		25 50						784 548	None	X 00 00
•.	-	50						274	774	XOD 00X
•••	,	500						766 718	766 718	X OS
•		1000						660	660	COX
	,	2000						605 605	605 605	ž č
Marcani	Veepel SP-1 Poteimide	2325	173							
1000 A 1 )		1								Ň
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SEALANTS, THREAD, COMPOUNDS, AND LUBRICANTS

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		E	Tamitin		Vfeel and	and Lunant	Dammatic	Constants	Elsub	1	L
Kolerence	Mattrials	lest Pressure (psi)	Inguion Temp. (K)	Temp (K)	Energy (kg m)	Reaction Reaction Rate	Fnoumans Impact Reaction Rate	apecanen Thickness (10)	F tash Point (K)	Point (K)	10.0000 cm cm
Guter(1967)	Arrcraft Lu- bricating Oil DE 2472 B/O	15 300 750 1500 2625 3750	582 513 498 483 475 480								00 X 00 20 X 00 20 X 00 20 X 00 20 X 00
Jamison(1970 Nihart and "mith(19(-!)	) Andox C Oil Aroclor 1254	2000 2000 7500	649 628	667	1.4	0/21					GOX GOX GOX
# - 	Burail Brand Microplates	2000 7500	×773 ×775								GOX
2 */	Dixon's Flake Graphite No. 1	2000 7500	>773 ~773								COX GOX
Jamison(1970	) Dow Corning 33 Grease	2000		297	1.4	0/20					GOX
Pippen and Stradling (1971)	Drilube 822	5 25 50 100 1000 1500 2000							/21 648 668 561 525 525 473 473	None 677 608 561 576 511 511 493	X X X X X X X X X X X X X X X X X X X
Nihart and Smith(1964)	Everiube No. 811	2000 7500	<b>4</b> d9 523								GOX COX
Aue tin(1972)	Everlube No. 811	100 500 1500 1500 100 100 1000 1500		90 90 300 300 300 300	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0/20 0/20 0/20 0/20 0/20 0/20 0/20		030 030 030 030 030 030 030			X X X X X X X X X X X X X X X X X X X
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SEALANTS, THREAD, COMPUUNDS, AND LUBRICANTS cont.

Reference	Materials	Test Pressure {psi}	Ignition Temp. (K)	Test Temp. (K)	Mechani Energy (kg m)	cal Impact Reaction Rate	Pneumatíc Impact Reaction Rate	Specimen Thickness (in)	Flash Point (K)	Fire Point (K)	Environment
Auvtin(1972)	Everlube No. R11 B-2	100 500		06 06	0 2	0/20 0/20		. 030 . 030			гох
		1500		06 06	2 2	0/20 2/20		050. , 050			rox Fox
		1500 1500		06 06	9-9 8.3	0/20 6/20		. 030 . 030			XOT TOX
		100		300	10	0/20		. 030			XOU
		1000		300	9	0/20		. 030			x xoy
		1500		300	10	0/20		. 030			GOX
:	Everlabe	100		06	10	0/20		. 030			TOX
	No. 812	500		00	10	0/20		. 030			гох
		1000		06	01	0/20		. 030			TOX
		2063		300	10	0/20		030			FUX FUX
		500		300	9	0/20		. 030			COX
<b>`</b>		1000		300	10	0/20		. 030			COX
•		1500		309	10	0/20		030			GOX
Nibrart and	Fluorinated	50				0					COX
Smith(1964)	Pydrocarbon	100				20 %					COX 20X
		500				50 %					GOX
		1000				66.6%					GOX
Austin(1972)	Fluorolube	100		06	10	0/20		. 630			хот
	GR 290	500		06	10	0/20		. 030			rox
		1000		96	10	0/20		. 030			гох
•		1500		06	10	0/20		. 030			TOX
		001		300	10	0/20		. 030			COX
		500		300	10	0/20		. 030			GOX
		1000		300	10	0/20		. 030			GOX
		1500		300	10	8/20		. 030			COX
• . •		1500		300	6	5/20		. 030			COX
		1500		300	8.3	0/20		. 030			GOX
· · ·		1500		300	7.6	0/20		. 030			COX

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AND LUBRICANTS cont.
COMPOUNDS,
THREAD,
SEALANTS,

Deference	Mataulala			ŀ							
Veretence	Midle I Idis	Deserves	Tame	Tomp	Freedom	Peartine	Immost	appendiate	Flain Division	Fire	Fluxironment
		(psi)	(K)	(X)	( Yg m)	Rate	Reaction Rate	(11)	(K)	(K)	
<b>Aus</b> tín(1972)	Halocarbon	100		06	10	0/20		. 030			TOX
	4-11ES	500		06	10	0/20		. 030			rox
		1000		06	10	0/20		. 030			LOX
		1500		90	10	0/20		. 030			LOX
		100		300	10	0/20		. 030			GOX
		500		300	10	0/20		.030			COX
		1000		300	10	0/20		. 030			GOX
		1500		300	10	0/20		. 030			GOX
=	Halocarbon	100		90	10	0/20		. 030			TOX
	10-25E	500		90	10	0/20		. 030			TOX
		1000		06	10	0/20		. 030			TOX
		1500		06	10	0/20		.030			TOX
		100		300	10	07/0		. 030			GON
		500		300	16	0/20		. 030			GOX
		1000		300	10	0/20		. 030			GOX
		1500		300	10	12/20		. 030			GOX
		1500		300	8.3	2/20		. 030			GOX
		1500		300	7.6	07/0		. 030			GOX
		1500		300	7.0	0/20		. 030			GOX
=	Halocarbon	100		06	10	0/20		. 030			TOX
	<b>14</b> -25	500		06	10	0/20		. 030			LOX
		1000		06	10	0/20		. 030			хот
		1500		06	10	0/20		. 030			TOX
		100		300	10	0/20		.030			GOX
		500		300	10	0/20		. 030			GOX
		1000		300	10	0/20		. 030			GOX
		1500		300	10	2/20		.030			GOX
		1500		300	6	0/20		. 030			GOX
		1500		300	8.3	0/20		030			GOX
F	Halocarbon	100		06	10	0/20		. 030			ТОХ
	14-25ES	500		06	10	0/20		. 030			TOX
		1000		. <del>9</del> 0	0	0/20		. 030			LOX
		1500		۰ <u>6</u>	10	07/20		.030			rox
		100		300	10	0/20		. 030			GOX
		500		300	10	0/20		010.			GOX
		1000		300	10	0/20		. 030			GOX
		1500		300	10	0/20		. 030			GOX

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Reference	Materials	Tressure Pressure	Ingition Temp.	Test Temp.	Mechanic Enerev	al Impact Reaction	Pneumatic	Specimen Thickness	Flash Punt	Jeire Point	Environment
		(psi)	(K)	(%)	(kg in)	Rate	Reaction Rate	(11.)	(X)	(K)	
Austin(1972)	Halocarbon	100		06	10	0/20		. 030			TOX
	11-146	500 1000		06	0 0	0/20		. 030			rox r
		1500		06	10	0/20		. 030			LOX LOX
		001		300	10	0/20		. 030			TOX
		500		300	10	0/20		. 030			GOX
		1000		300	10	07/0		030			GOX
		1500		300	10	07/20		. 030			GOX
	Halocarbon	100		06	10	0/20		. 030			TOX
	11-21E	100		06	10	0/20		. 030			TOX
		\$00		06	10	0/20		. 030			TOX
		1500		06	10	0/20		. 030			TOX
		100		300	10	0/20		. 030			GOX
		500		300	10	0/20		. 030			GOX
		1000		300	01	0.50		. 030			GOX
		1500		30.0	10	0/20		. 030			GOX
:	Halocarbon	100		06	10	0/20		. 030			тох
	11-21ES	500		06	10	0/20		. 030			LOX
		1000		06	16	0/20		. 030			TOX
		1500		60	10	0/SN		. 030			TOX
		100		300	10	07/0		. 030			COX
		500		300	10	0/20		. 030			GOX
		1000		300	10	0/20		. 030			GOX
		1500		300	10	0/20		. C30			GOX
1	Halocarbon	100		06	01	0/20		. 030			rox
	13-21ES	500		90	10	0/20		. 030			LOX
ı		1000		96	10	0/20		. 030			TOX
		1500		06	10	0/20		. 030			гох
•		100		300	10	0/20		. 030			GOX
		500		300	10	0/20		. 030			GOX
		1000		300	10	0/20		. 030			COX
•	-	1500		300	10	0/20		. 030			GOX
Mitast and	Halocarbon										
14961 W2214294	LTERSS SETTER	2000, 7500	704								
	Halocarbon Oil										GOX
•	Series 15-21	2000, 7500	708								XU'U

SUNIDAMOD SEALANTS. THREAD.

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Interestion         Materials         Test (a)         Test (a				SEALANTS	. THREAD	. COMPOI	UNDS. AND	LUBRICANTS	cont			
With trait         High Purity issued (973)         Total High Purity issued (973)         100         750         644           Amility (954)         Coop         100         90         10         0,233         0.00         100         100           Amility (954)         Coop         100         90         10         0,233         0.00         100         100           Amility (954)         1000         90         10         0,233         0.00         100         0.00         100         0.00         100         0.00         100         0.00	Reference	Materiais	Test Pressure (psi)	lgnition Temp. (K)	Test Terap. (K)	Mechani Energy (kg m)	cal Impact Reaction Rate	Pneumatic Impact Reaction Rate	Specimen Flucknes : (in)	Flash Point (K)	Ftre Point (K)	Ецитопте
Antial (1972)         Ialue 14         100         90         10         9/20         900         100         9/20         100	Nihart and Smith(1964)	High Purity Goop	2000, 7509	684								- XOD
100         100         0/20         000 <td>Austin(1972)</td> <td>Inlox 44</td> <td>100</td> <td></td> <td>06</td> <td>01</td> <td>0/20</td> <td></td> <td>.030</td> <td></td> <td></td> <td>KON LOX</td>	Austin(1972)	Inlox 44	100		06	01	0/20		.030			KON LOX
Figue         50         10         6/20         0.00         100         6/20         0.0			500 1000		06 06	• 01	0/20		. 030			NO.1
100         300         10         9/20         300         10         9/20         300         100         6/33 <td></td> <td></td> <td>1500</td> <td></td> <td>9</td> <td>10</td> <td>0/20</td> <td></td> <td>030</td> <td></td> <td></td> <td>LOY</td>			1500		9	10	0/20		030			LOY
Ionical (171)         Ionical			100 560		300 300	01	0/20 0/20		. 030 . 030			COX COX
Janiaa (171)         Janiaa (171)         Janiaa (171)         Janiaa (171)         KEL-F         200         10         0,20         000         10         0,20         000         10         0,20         000         10         0,20         000         10         0,20         000			1000		300	01	0/20		. 030			NOD NOD
31F Grease         200         294         10         0/20         COX           Nihat ind (Sf)         KE1-F         2000         708         Cox         COX         COX           Smith(1964)         KE1-F         2000         708         90         10         0/20         COX         COX           Autic(1972)         KF4ras         700         709         90         10         0/20         100         0/20         100         0           Reside(1971)         KF4ras         100         90         10         0/20         0.01         0/20         100<	Jamison(1976	)) Invelco	1500		300	01	07/0	: : 1	000.			<
Nihart and Smith(1973)         KFL-F (70)         200 708         700 708         700 708         700 709         700 709         700 709         700 709         700 709         700 709         700 703         703         700 703         703		33F Grease	2000		294	01	0/20					GOX
Autic(1972)         K*ytox         100         90         10         0/20         100           280-AB         500         90         10         0/20         000         100         100           280-AB         500         90         10         0/20         000         100         100           1900         90         10         0/20         100         100         100         100           1900         90         10         0/20         100         100         100         100           1900         90         10         0/20         100         100         100         100           1900         90         10         0/20         100         100         100         100           500         100         0/20         100         0/20         100         100         100           500         100         0/20         100         10         0/20         100         100           500         100         0/20         10         10         0/20         100         100           500         100         10         0/20         10         10         173         173	Nihart and Smith(1964)	KEL-F 90 Grease	2000 7500	708 708								COX GOX
200-AB         500         90         10         0/10         0.01         100<	Austin(1972)	Krytox	100		06	10	0/20		. 030			гох
Pipen and trading(1971) Grease         500 500         100 500         700 500		280-AB	500		06	0	0:/0		. 030			LOX LOX
100         300         10         0/20         0.30         0.0			1500		06 06	2 2	0/20		. 030			LOX LOX
500         300         10         0/20         300         10         0/20         600           Pippen and         Krytox 24f AC         5         300         10         0/20         0.300         600			100		300	01	0/20		. 030			GOX
Pippen and     Krytox 24/ AC     5     500     10     0/20     100     0/20       Strading(1971) Greese     50     10     0/20     100     621     Nune     GOX       Strading(1971) Greese     50     10     0/20     100     0/20     100       Strading(1971) Greese     50     100     0/20     100     731     731     600       Strading(1971) Greese     50     600     100     0/20     100     739     731     731     600       Strading(1971) Greese     50     1000     731     731     731     733     600       Strading(1971) Greese     500     100     0/4     0/4     0/4     0/4     0/2       In     Krytox 240 /C     500     360     1.4     0/4     0/4     0/4     0/4       Jamioul(1970) Krytox     2000     360     1.4     0/4     0/4     0/4     0/4			500		300	2 9	02/0		. 030			
Pippen and       Krytox 24f AC       5       None       GOX         Strading(1971) Grease       25       429       None       GOX         50       50       50       50       60       60         50       50       739       731       731       731       60         50       50       689       689       689       60       60         100       1000       1.4       0/4       0/4       689       689       60       60         1       Krytox 240 /C       5000       1.4       0/4       0/4       689       689       60       60         1       Crease       5000       1.4       0/4       0/4       689       689       60       60         1       Crease       5000       1.4       0/4       0/4       60       60       60         2 <td< td=""><td></td><td>1</td><td></td><td></td><td>300</td><td>2 0</td><td>0/20</td><td></td><td>. 030</td><td></td><td></td><td>K OD</td></td<>		1			300	2 0	0/20		. 030			K OD
Strading(1971) Grease       25       429       Nune       GOX         50       50       50       600       600         50       50       739       7       GOX         100       100       731       731       731       GOX         500       600       736       733       703       GOX         1000       1500       689       689       689       GOX         1500       2000       360       1.4       0/4       689       699       GOX         1500       2000       360       1.4       0/4       689       689       GOX       GOX         1500       2000       360       1.4       0/4       699       GOX       GOX         1500       2000       360       1.4       0/4       689       689       GOX         1500       210 AC       200       200       200       200       200       200       200       200         1500       240 AC       200       24       0/4       0/4       0/4       609       GOX         240 AC       240 AC       240 AC       240 AC       240 AC       240 AC       240 AC <td>Pippen and</td> <td>Krytox 240 AC</td> <td>\$</td> <td></td> <td></td> <td>; </td> <td></td> <td></td> <td></td> <td>129</td> <td>None</td> <td>GOX</td>	Pippen and	Krytox 240 AC	\$			; 				129	None	GOX
50     50     None     None     None     So       50     50     73     73     73     60X       100     100     100     73     73     60X       100     1000     1000     73     73     60X       1000     1000     1000     73     73     60X       1000     1000     1500     689     689     60X       1500     2000     360     1.4     0/4     689     689     60X       1500     2000     360     1.4     0/4     689     689     60X       1500     240 //C     5000     360     1.4     0/4     689     689     60X       1     Krytox 240 //C     5000     360     1.4     0/4     0/4     60X       1     1     0/4     0/4     0/4     689     60X       240 AC     5000     360     1.4     0/4     60X       240 AC     240 AC     240 AC     240 AC     60X	Stradling(197	11) Grease	25							429	None	GOX
100     731     731     731     731     731     731     700       500     500     1000     125     725     725     725     725     725       1000     1000     1000     1500     689     689     600       1500     2000     360     1.4     0/4     689     600       1     Krytox 240 /.C     5000     360     1.4     0/4     689     600       1     Krytox 240 /.C     360     1.4     0/4     0/4     689     600       1     Krytox 240 /.C     300     1.4     0/4     0/4     689     600       240 AC     5000     360     1.4     0/4     0/4     600     600	I		50				4			None	Nore	GOX
100     131     131     131     131       500     500     500     500     689     60X       1000     1000     1000     689     60X       1500     1500     1.4     0/4     689     689     60X       1500     2000     360     1.4     0/4     689     689     60X       1500     2000     360     1.4     0/4     689     60X     60X       1amisou(1970) Krytox     200     2.4     0/4     0/4     60X     60X			50							739	- I	GOX
			100							151	151	XOD XOD
Image: state state       5000       300       1.4       0/4       689       689       600         Image: state       5000       360       1.4       0/4       699       600       600         Image: state       5000       360       1.4       0/4       6/4       600       600         Image: state       5000       360       1.4       0/4       6/4       600         Image: state       5000       360       1.4       0/4       6/4       6/0         Image: state       5000       360       1.4       0/4       6/4       6/0       6/0			0001							671	67J	
1500 2000 1500 2000 2000 2000 2000 200 200 2			1000							684	689	rox
" Krytox 240 f.C 360 1.4 0/4 0/4 GOX GOX Jamisou(1970) Krytox 240 AC 240			1500							703 689	703 680	X 0 0 2 0 0
Krytox 240 f.C     300     1.4     0/4     GOX       Jamisou(1970) Krytox     240 AC     2000     207     1.4     0/4	:	4 4 4									100	200
Jamisou(1970) Krytox 240 AC 240 AC 240 AC 240 AC	=	Krytox 240 f.C Grease	5000		360	1.4	0/4	0/4				GOX
$C_{-0.00}$ 2000 287 1.4 0.70 COV	Jamison(197	0) Krytox										
		ZAU AC	2000		707	4	0/20					XU2

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			SEALANTS,	THREAD,	COMPOUNDS, AND	LUBRICANTS co	'nt			
Reference	Materials	Test Prossure (psi)	lgnition Temp. (K)	Test Temp. (K)	Mechanical Impa, t Energy Reaction (kg in) Rate	Pneumatic Impact Reaction P de	Specimen Thickness (in)	Flash Point (K)	Fire Point (E)	Environment
Nil art and Sm:th(1964)	Linde Green Pipe Joint Compound	2000 7500	629 635							אסט רטא
-	50-50 Saft Su <b>lder</b>	2000 7500	>773 >773							20X 20X
brooks(1923)	Linsced Oil	0-3200	394							GUX
Pippen and Stradling (1971)	L9/3T Grease	5 9 2 9						641 671 685	Norte 674 685	XOD COD
		50 100 560 1006						588 551 518 518	588 551 518 512	COX X COX COX COX
		1500 2000						506	515	COX
Nihart and Smith(1964)	Mano Pipe and Joint Compound	2000 1 7500	633 695							COX
:	MolyKote Z	2000, 7500	550							COX
2	Oxweld Anti- Friction Com- pound No. 54	2000 7500	510 503							ς.ox Cox
:	Oxweld Anti- Friction Corn- pound No. 64	2000, 7500	683							COX
=	Oxylube No. 703	200U 7500	511 463							Ciox Ciox
:	Rectorsee! No. 15	2060 7500	647 628		¢					COX
Guter(1967)	Silicone D.C. Fluid 200 CSTICS 100	750 3750	561 474							COX COX

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					ELAST	OMERS					
Reference	Materials	Test Pressurc (psi)	lgnition Temp. (K)	Test Temp. (K)	Mechanic Energy (kg m) i	sal Impact Reaction Rate	Pneumatic Impact Reaction Rate	Specimen Thickness ( n)	Flash Point (K)	Free Point (K)	Euro roncert
Pippin and Stradlug (1971)	Burma-N Rubber	5000 1500 2000		300 300 300	0.34 0.34 0.34	0/4 0/4	0/4 5/4				00X 00X 00D
=	Bubber Rubber	ی 50 500 1000 1500 1500 2000			- -				650 617 617 617 617 617 617 617 617 617 617	None 617 617 617 617 494 454 453 431	
Nihart and Smith (1964)	Duroid 5600 Duroid 5650 Duroid 5870	7500 7500 7540	742 725 730								XC 0 XOD
-	Duroid 5813	7500 2000	736 701					L			COX
McQuaid (1972)	Sthylene Prop- ylene Rubber	2475	456.5								COX
Maraani (1968)	Ethylene Prop- ylene Rubber	<b>2</b> 500	457								COX
	Ebonite	750 1500 2625 3750	455 435 419								COX COX COX COX COX
<b>Jamison</b> (1970)	Ethylene - Fropylene Rubber-EMS 388 (EPR)	5000		594	7	8/9					GON
Pippen and Btradling (1971]	Fluorosilicone Elastomer	2500 3000 3500 4000 4500 5000		300 300 300 300 300	4 4 4	0/2 0/2 0/8	0/4 1/2 1/2 4/4				8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

Reference         Materials         Test Pressure (1971)         Test Schwinghame Silicme         Test Fremp.         Tentp.         Tentp.         Tentry         Rescrition is, ym, solic           Schwinghamer         Fluorriated         50         (K)         (K)         (K)         is, ym, is, ym, solic           Schwinghamer         Fluorriated         50         (K)         (K)         is, ym, is, ym, solic         503           Pippen and Strading         Fluorrostilicone         5         50         1000         1000           Strading         Fluorrostilicone         5         50         1000         1000         1000           Grast (1967)         Hycer Lining         750         643         473         473         1005           "         L.C.U.         750         643         473         473         1005           "         L.C.U.         750         643         470         473         473           "         L.C.U.         750         643         470         473         473           "         L.C.U.         750         593         473         473         473           "         L.C.L.         750         543         470         563						ELASTOMI	ERS cont.				:	
Schwinzphanner         Fluorinated         50         500           (1971)         Silicome         50         500         500           (1971)         Silicome         100         500         1000           Pippen and         Fluorosilicome         5         500         1000           Stradling         L-449-6         25         1000         1000           Stradling         L-449-6         25         1000         1000           Stradling         L-449-6         25         1000         1000           Stradling         L-449-6         25         473         1000           Cuter (1967)         Hycar Lining         750         643         473           "         L.C.L         750         643         473           "         L.C.L         750         643         473           "         L.C.L         750         544         473           "         L.C.L         750         643         473           "         L.C.L         750         643         473           "         L.C.L         750         643         473           "         L.C.L         750         701	lefe rence	Materials	Test Pressure (psi)	Ignitton Temp. (K)	Test Temp. (K)	Mcchanic Energy (kg m)	al Impact Reaction Rate	Pheumatic Impact Reaction Rate	Specimen Thickness (in)	Flish Point (K)	Urre Point (K)	houndarise
Fippen and Strading       Fluorosilicone       5         Strading       L-449-6       25         Strading       100       50         Strading       200       100         Strading       200       643         Cutar (1967)       Hycar Lining       750       643         Tube       1500       643       645         Tube       1500       643       645         Tube       1500       643       645         Tube       1500       644       645         Standard       1500       646       646         Rubber       3750       470       59         Rubber       3750       407       50         Mihart and       KELL-F Elas-       700       610         Muber       2625       407       50         Studard       2625       407       50         Muber       7500       701       70         Studard       1500       610       610         Studard       2625       407       610         Muber       750       701       610         KetL-F Elas-       750       610       610	hwinghamer 971)	Fluorinated Silicone	50 100 1000			-	50% 50% 100% 100%					000 000 000 000 000
Cutar (1967)       Hycar Lining       750       645         Tube       1500       645         1       2625       473         3750       435       473         1       1.C.1       750       598         1       1.C.1       750       599         1       1.C.1       750       589         1       1.O.1       750       589         1       1.O.1       750       524         1       1.O.1       750       409         Rubber       2625       409       407         Rubber       2625       409       407         Nihart and       KEL-F B1a-       700       701         Nihart and       KEL-F B1a-       700       610         Samtith (1964)       temer 3700       750       620         Cutor (1967)       Natural Rubber       750       620         Autor       750       620       620	ppen and radling 971)	Fluorosilicone L-449-6	5 50 100 1000 1000 1000 2000			- -				0 4 4 4 4 4 4 4 7 6 4 4 7 6 4 4 7 6 4 4 7 7 4 7 7 4 7 7 7 7	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	X X X X X X X X X X X X X X X X X X X
"       I. C. I.       750       598         Standard       1500       589         Rubber       3750       470         "       I. O. I       750       524         "       I. O. I       750       524         "       I. O. I       750       524         "       Standard       1500       409         Rubber       2625       409         Rubber       2625       407         Nihart and       KEL-F 81       700         KEL-F Elas-       701       701         Smith (1964)       KEL-F Elas-       701         Ketler Flas-       7500       701         Guber (1967)       Natural Rubber       750         Guber (1967)       Natural Rubber       750         Hose       1500       451         Hose       1500       451	ater (1967)	Hycar Lining Tube	750 1500 2625 3750	643 646 473 435								00X 00X 00X 00X 00X
KEL-F 81         7500         701           Nihart and Smith (1964)         KEL-F Elas-         7500         610           Smith (1964)         tomer 3700         7500         620           Cuber (1967)         Natural Rubber         750         584           Hose         1500         456         456	I I	I. C. I. Standard Rubber I. O. I Standard Rubber	750 1500 3750 750 1500 2625 3750	5,89 5,89 7,09 7,09 7,04 7,04 7,04 7,04 7,04 7,04 7,04 7,04								
Guber (1967) Natural Rubber 750 584 Hose 1500 451 2625 406	f ibart and aith (1964)	KEL-F 81 KEL-F Elas- tomer 3700 KEL-F Elas- tomer 5500	7500 7500 7500	701 610 620				1/1				20X 20X 20X
	1967)	Natural Rubber Hose	750 1500 2625	584 451 406								x x x 0 0 0 0 0 0

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					ELASTOMERS cont.					
Reference	Materials	Test Pressure (psi)	lgnition Temp (K)	Test Temp. (K)	Mechanical Impact Energy!Reaction (kg m)' Rate	Pneumatic Impact Reaction Rate	Specimen Thickness (in)	Flash Point (K)	Fire Point AK	Envi ronment
McQuaid (1972)	Neoprena (Valve Dianhradm)	2306								
		0027	454							COX
	Neuprene	1000		300		0/4				
		1500		300		2/3				× 200
-		5000		300	0 34 0.14	4/4				COX COX
Guter (1967)	Necprene	750	570	2						GOX
	•	1500	558							xoo So
		2625	518							COX
	-	3150	478							GOX
Pippen and	Neoprene	ŝ								60.Y
Stradling	•	25						611	None	XC J
(1261)		20						600	602	xor
-		50						649	649	cox
		100						507	507	X OS
		500						506 406	506	COX
		1000						440	496	COX
		1500						460	440	S S
		0007						465	465	x oo
	Ned Floer	2000		300	0.34 0/4					
	Sheet	1500		300	0/4					00X
	<i>.</i>	2500		300	1/2					
	2	3000		300	1/2					COX
Guter (1967)	Red Vulcan-	15	648		F / F					COX
7	ized Fiber	750	545							
_	Block	1500	493							
		2625	483							
		3750	485							
Cuter (1967)	Red Vulcan-	15	625							
	ired Fiber	750	545							
- <sup>-</sup>	Shavinge	1500	483							
~		2625	462							
~		3750	418							
	Rubber	150	503							
	Diaphragma	1500	448							COX
		3750	410		*					COX

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				4	ELASTOME	CRS cont.					
Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechanic Energy R (kg m)	al Impact teaction Rate	Pheumatic Impact Reaction Rate	Specimen Thickness (in)	Flash Point (K)	Fire Point (K)	Er vi ronment
Nihart and Swith (1504)	Rulon A Rulon B Rulon C	7500 7500 7500	737 736 735								00X 00X 00X
J <b>amís</b> on (1970)	Si Elastomer SE-342	2000		294	÷.1	4/20					GOX
Ŧ	Si Elastomer	2000		297	1.4	5/9					GOX
Pippen and Stradling (1971)	Silicone Elautomer	1000 1500 2000 3000		300 300 300 300	4 7 7 . 4 7 4	0/4 1/2 4/4	0/4 4/4				× × × × × × × × × × × × × × × × × × ×
	•	4500		300	0.34 0.34	0/4 1/2			·		x x x x x x x x x x x x x x x x x x x
· . •	Silicon⊭ C -Ring	5 25 50 100 1500 1500 2000							None 684 688 610 656 527 503 503	None 702 688 610 610 527 503 503	00000000000000000000000000000000000000
Jarnison (1970) ''	Silicone Rubber Primer A-4094 . Primer SS-4004	2000 2000		299 297	1.4 1.4	0/21 3/6					GO X GO X
Schwinghamer (1971)	· Silicone	50 100 1700	نیں <sup>تر</sup> میں ا مرکز ا ا			50% 100% 100%					000 000 000 000 000 000 000 000 000 00
Jamison (1970)	Silicone 5537	20 100 2000	، ب بند ب	, 296. 5 299. 5 296. 5	7. 58 7. 78 7. 78 7. 78	0/21 3/9 7/16					COX COX COX
Guter (1967)	Silicone Rubber	750-3750	59 <b>8</b>								X ND

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					ELASI UN	AERS cont.					
Reference	Materials	Test Pressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechani Energy (kg m)	cal Impact Reaction Rate	Pneumatic Impact Reaction Rate	Specimen Thickness (inj	Flash Point (K)	Fire Point (K)	Environment
Nihart and Smith (1964)	Teflon (virgin) Teflon (100 x)	7500 7500	740 688				1/1				GOX GOX
:	Viton A (virgin) Viton B (virgin)	7500 7500	578 593				2/2				GOX GOX
Jamison (1970)	Viton V-EMS~338	2000		299	I.4	0/20		-			GON
2	Viton A-HS-757A	2000		299	1.4	0/20					GOX
2	Vitca B	2000		200	1.4	0/21					CO.X
Pippen and Stradling (1971)	Viton Rubber	35C0 4000 5000		300 300 300	.34 .34	0/1 0/4	0/4 1/3				X 00 0 0 0 0 0 0
	V iton A	25 50 500 1000 1500 2000 2000	,						6 6 2 1 5 5 6 6 0 0 5 1 8 8 3 0 0 0 0 1 5 8 8 3 0 1 5 8 3 0 1 6 6 1 1 7 8 3 0 1 1 8 3 0 1 1 8 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 40 7 14 5 80 5 18 5 18 5 15 5 15	x x x x x x x x x x x x x x x x x x x
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					MISCELL	ANEOUS					
Reference	Materials	Test Fressure (psi)	Ignition Temp. (K)	Test Temp. (K)	Mechanic Energy (kg m)	cal Impact Reaction Rate	Prieumatic Impact Reaction Rate	Specimen Thickness (in)	Flash Point (K)	Fire Poini (K)	Environment
J-mison(197	0) Armstrong A-2 Activator A	2000 100		294 294	1.4 1.4	♣/20 0/22					KON KON
Marzani (1968a)	Asbestos, TFE, MOS2 Fhenolic Resin	2250	446.5								YOU
-	Asbestos Cloth TFE Phenolic Resin	2200	432. 5								XOD
-	Asbestos Cloth Graphite, Phenolic Resin	2200	<del>4</del> 30								COX
<b>E</b>	Carbon Graphite-Copper	3275	607								XOD
	Carbon Graphite - Silver	3200	588								COX
2 · · ·	Carbon Graphite-Babbit	3100	576.5								COX
Pippin and Stradling (1971)	Epibond 70- 1768	500 - 1000 1500 2000		300 300 300	1.4	4/4	0/4 1/2 1/3		-		X X X X X X X X X X X X X X X X X X X
Jamis'oh(197	() Epibond 123 Hardner 931	2000 100		297 297	1.4 1.4	5/9 0/21					COX COX
Pippen and Stradling	2T Epoxy	<b>4</b> 500 5000		300	. 34	0/ <del>4</del> 1/3	0/4				COX GOX
	EA-40 Epoxy	3500 4000 4500		300 300			0/1 0/4 4/4				X X X OS C C C X
Marzani (1968a)	Laminated Glass-Filled Epoxy	2500	460								COX

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Reference         Material         Tati						MISCELLANE	EOUS CON	ıt.				
Anticle (172)         February February (173)         Cold February (173)	Reference	Materials	Test Pressure	Ignition Temp.	Test Temp.	Mechanical I Enerov Read	in pact ction	Pneumatic Impact	Specimen Thickness	Flash Point	Fire Point	Environment
Antiol (1972)         Experiment (1)         (1)         (2)         (1)         (2)         (1) <th></th> <th></th> <th>(psi)</th> <th>(K)</th> <th>(K)</th> <th>(kg m)   Ré</th> <th>ate</th> <th>Reaction Rate</th> <th>(in)</th> <th>(F)</th> <th>(K)</th> <th></th>			(psi)	(K)	(K)	(kg m)   Ré	ate	Reaction Rate	(in)	(F)	(K)	
Fiberglass         13         7.62         20.20         0.01         10.01           13         13         10         13         10.0         10.0         10.0           13         10         10         10         10.0         10.0         10.0         10.0           13         10         10         10         10.0         10.0         10.0         10.0           10         10         10         10         10.0         10.0         10.0         10.0           100         100         10         10.0         10.0         10.0         10.0         10.0           100         100         100         10.0         10.0         10.0         10.0         10.0           100         100         100         10.0         10.0         10.0         10.0         10.0           100         100         100         10.0         10.0         10.0         10.0         10.0           100         100         10.0         10.0         10.0         10.0         10.0         10.0         10.0           100         100         10.0         10.0         10.0         10.0         10.0         10.0 </td <td>Austin(1972)</td> <th>Epoxy</th> <td>15</td> <td></td> <td>90</td> <td>10 20/</td> <td>/20</td> <td></td> <td>0. 25</td> <td></td> <td></td> <td>TOX</td>	Austin(1972)	Epoxy	15		90	10 20/	/20		0. 25			TOX
Image: sector	•	Fiberglass	15		96	7.62 20/	/20		0 65			rox
1         1         202         202         000         14         2020         000         100			15		5 S	5.54 20/	/20		0 05			rox
13         90         1.31         4.20         0.03         1.03         4.20         0.03         0.0			15		06	3.46 20/	/20		0.			ТОХ
11         10         11         10<			15		06	1.38 4/	/20		0. 05			TOX
100         100 <td></td> <th></th> <td>15</td> <td></td> <td>06</td> <td>0.68 2/</td> <td>/20</td> <td></td> <td>0.05</td> <td></td> <td></td> <td>гох</td>			15		06	0.68 2/	/20		0.05			гох
Non-         100         7.62         20/20         0.03         7.62         20/20         0.03           100         1.00         1.62         2/20         0.03         1.00         1.			100		300	10 15/	/20		0.05			GOX
100         54         2020         0.05         54         2020         0.05           100         100         500         541         720         0.05         0.05           100         100         117         720         0.05         0.05         0.05           100         117         171         176         0.05         0.05         0.05           100         117         171         176         0.05         0.05         0.05           100         117         171         176         0.05         0.05         0.05           100         117         171         0.0         117         171         0.05         0.05           100         117         171         171         0.05         0.05         0.05           117         170         117         171         0.05         0.05         0.05           117         170         111         171         0.05         0.05         0.05           117         100         114         174         0.20         0.05         0.05           118         1160         114         0.20         114         0.20         0.05 <td></td> <th></th> <td>100</td> <td></td> <td>300</td> <td>7.62 20/</td> <td>/20</td> <td></td> <td>0.05</td> <td></td> <td></td> <td>COX</td>			100		300	7.62 20/	/20		0.05			COX
100         300         4,16         2,20         0.05         0			100		300	5.54 20/	/20		0.05			COX
100         300         4.17         9.20         0.05         0			100		300	4.86 2/	/20		0.05			GOX
100         3.40         9.20         3.40         9.20         0.05			100		300	4.17 0/	/20		0.05			GOX
Andie         200         416         2/5         0.05         0			100		300	3.46 0/	/20		0.05			GOX
Ansate         500         4.17         0/20         0.05 <t< td=""><td></td><th></th><td>500</td><td></td><td>300</td><td>4.86 2/</td><td><b>5</b></td><td></td><td>0. C5</td><td></td><td></td><td>GOX</td></t<>			500		300	4.86 2/	<b>5</b>		0. C5			GOX
Martani Carata HiZZ         100         4,17         1/1         0.05         000         4,17         1/1         0.05         000         000           Carata HiZZ         15'0         600         4,17         1/1         0.05         0.05         0.05         0.05           Carata HiZZ         15'0         600         4,17         1/1         0.05         0.05         0.05           Marani         Grada HiZZ         15'0         600         7.10         0.05         0.05         0.05         0.05           Marani         Grada HiZZ         190         724         1.4         0/20         1.00         0.05         0.		•	. 500		300	4.17 0/	/20		0.0÷			GOX
I         150         300         4.17         1/1         0.05         COX           Caratylyci         Grade H22         1730         673         730         4.17         1/1         0.05         603           Grade H22         1730         673         730         4.17         1/1         0.05         603           Marauli         Gradu H22         1730         603         724         724         724         724         724           Marauli         Gradu H26         160         724         724         724         726         603         720           Marauli         Gradu H26         200         234         1.4         0/20         700         617         101         700           Marauli         Gradu H26         200         234         1.4         0/20         700         603         603           Marauli         Gradu         250         1.4         1.4         1.4         1.4         1.4         700         700         700         700           Marauli         Function         250         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4			1000		300	4.17 1/	,6 /6		0.05			COX
Guert1967)         GAC0 Seate Table         750 275         613 645         710         613 645           Marrani Creat/1967)         Graphite Taple         750         613 750         770         603 750           Marrani Creat/1967)         Graphite Taple         750         713         713         713         713           Marrani Creat/1967)         Lamp Black         750         643         713         714         7	~		1500		300	4.17 1/	1/		0.05			COX
Carda H22         15'7         664           Marsaui         Grada H2         15'3         664           Marsaui         Graphile         300         724           Marsaui         Graphile         300         734           Generifyio)         Lawp Black         750         645           Jamisan         Locitile         200         234         1.4         0/20           Jamisan         Eriv         23         1.4         0/20         201         201           Hypen and         Eriv         23         1.4         0/20         101         000           Hypen and         Eriv         1.4         1.4         0/20         101         000           Hypen and         Eriv         200         1.4         1.4         0/20         000           Hypen and         Eriv         200         1.4         1.4         0	Guter(1967)	GACO Seate	750	673								gux
3750         455         COX           Attention         Graphite         3800         724         Cox         COX           Attention         Lockitt         750         646         Cox         COX         COX           Attention         Lockitt         200         724         1.4         0/20         Cox         COX           Attention         Lockitt         200         234         1.4         0/20         None         None         None         Cox           Attention         23         Attention         23         None         None         None         Cox           Attention         23         Attention         23         Attention         234         1.4         0/20           Attention         23         Attention         23         Attention         234         1.4         0/20           Attention         23         Attention         234         1.4         0/20         None         None         Cox           Attention         230         1.4         4/4         4/4         201         201         201         201         201         201         201         201         201         201         201		Grade H22	C./51	604								GOX
Messenti Consel/9607         G caphic annue         380         724           Consel/9607         Lamp Black         750         646         600         600           Tambino         Lockitte         750         646         600         600         600           Tambino         Lockitte         200         294         1,4         0/20         600			3750	455								GOX
Contribution         Lamp Bluck         750         646           Jaminon         Locklike         750         646           Jaminon         Locklike         200         294         1.4         0/20         CON           Jaminon         Fartic         23         None         None         None         CON           Pipera and         FLV Viton         23         None         701	Marsani	G raphite	3800	724								GOX
Jamison (1971)         Locktia Grade C         200         294         1.4         0/20         Cox           Pippen and (1971)         FLV Viton         23         None         None         Cox           Pippen and (1971)         FLV Viton         23         1:4         4/4         FO         FO         FO           Pippen and (1970)         Riv         200         297         1:4         4/4         FO         FO         FO           Pippen and (1970)         Resin Booded         700         93         539         539         GO           Pippen and (1970)         Resin Booded         700         93         54         GO         GO           Pippen and Conting Material 200         297         1:4         4/4         A/4         GO         GO           Pippen and Conting Material 200         297         1:4         2/19         Conting         GO         GO         GO <td>Geter(1967)</td> <th>Lamp Black</th> <td>750</td> <td><b>64</b>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>GOX</td>	Geter(1967)	Lamp Black	750	<b>64</b> 6								GOX
(1970)         Grade C         2000         294         1.4         0/20         COX           Pippen and Strading         FLV Vion         25         None         None         None         COX         COX           Strading         FLV Vion         25         None         None         None         None         COX         COX           Strading         FLV Vion         25         None         None         None         None         COX         COX           Strading         FLV Vion         25         GOX         GOX         GOX         GOX         GOX         GOX           Strading         RTV         2000         297         1.4         4/4         GOX         GOX         GOX           Manison         RTV         2000         297         1.4         4/4         GOX         GOX           Manison         RTV         2000         297         1.4         4/4         GOX         GOX         GOX           Manison         RTV         2000         297         1.4         4/4         GOX         GOX         GOX           Manison         RTV         2000         297         1.4         4/4         2/19	Jamison	L ocktite										
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## APPENDIX II - NONMETALLIC MATERIALS DESIGN GUIDELINES AND TEST DATA HANDBOOK, APPENDIX E MATERIALS TEST DATA FOR APPLICATIONS IN HIGH PRESSURE OXYGEN AND OTHER HAZARDOUS FLUIDS, NASA, MSC-02681 (1972)

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APPENDIX E MATERIALS TEST DATA FOR APPLICATIONS IN HIGH PRESSURE OXYGEN AND OTHER HAZARDOUS FLUIDS • •

## E1.0 INTRODUCTION

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3.

The test data presented in this appendix is from a computer generated report, NB/RT-71-45, dated February 1972. It is sorted by manufacturer's designation and presents thermal reaction data to materials tested in oxygen or other hazardous fluids. These tests were initiated as a result of the Apollo 13 investigation and were incorporated as Apollo Program Office requirements by addendum 2 of MSC-PA-D-67-13, Apollo Spacecraft Nonmetallic Materials Requirements.

The tests included in this report are:

- Pneumatic impact in gaseous oxygen
- Mechanical impact in gaseous oxygen
- The mogravimetric analysis
- Flash and fire point
- Reaction propagation in fluids other than oxygen
- Auto ignition
- Fluid impact in liquid oxygen and other fluids

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a given ratine runs a manual	a report matter and a matter.       W       Oddr production         be returble of free lawners, server offormation of configuration       X       Material burner et al. high rate. tool fast to measure, but no classified as a negative server.         1       recombinistic measure, returners of the results.       X       Material burner, as an equivation.         2       Scot and/or care determine.       Y       Mented to care and portation server.         3       Scot and/or care determine.       Y       Mented to care and portation.         3       Scot and/or care determine.       Y       Mented to care and portation.         3       Scot and/or care determine.       Y       Mented to care and portation.         4       Y       Mented to care and preference in the use of the Results Indicator (RI) in the Test Data Listing.         5       Test type coord indicators to port.       Test type coord indicators to port.         1       Test type coord indicators to port.       Test type coord indicators to post.         1       Test type coord indicators to post.       Test type coord post.         1       Test type coord indicators to post.       Test to post.         1       Test type coord indicators to post.       Test to the post.         1       Test type coord indicators to post.       Test to the post.         1	Image: Solution of the function of configuration of the function of	G	Smoldering combustion: (Material combustion was evidenced by	>	Detonal ion
Non-surface of free forwards of commerces are deformation of comparison of comparison of comparison of comparison are explosed at a hugh rate, too fast to measure, but or "classified at an explosion. (3)       X       Name is a hugh rate, too fast to measure, but or "classified at an explosion. (3)         Inconclusive results. (Net cole used with sample tests.)       S on an explosion. (3)       Mented for consideration testingmot to be y       Mented for consideration testing or the source of the results indicator (RI) in the Test Data Lusting.         Perenthetical Runders are the order of Perference in the use of the Results indicator (RI) in the Test Data Lusting.       Z       S care stat Report         Test type code indicates type of 1. performed. These codes and their definition       Z       S care test Report         Prementical Runders type of 1. performed. These codes and their definition       Z       S care test Report         Test type code indicates type of 1. performed. These codes and their definition       Z       S care test Report         Prementical Runder (accesso Oxygen)       Prementical Runder (caseous Oxygen)       Mented (caseous Oxygen)         Merced for configuration (RI)       Feet Type (TT) Code Definition       Feet Type (TT) Code Definition         Rest and Fee Point       Test type (CT) Code Definition       Feet Type (CT) Code Definition         Rest and Fee Point       Test type (CT) Code Definition       Feet Type (CT) Code Definition         Rest and Pree Point       Test type (CT) Code De	Non-endining of free more service deformation of contrigue of the second service to the fraction of the contribution of contribution of the contribution of	A       Marcel an informed at the substration form (and a marcel at hyperate, too fast to measure, but or classified as regular, (not to be super with sample test.)       X       Marcel at hyperate, too fast to be used with sample test.)         1       Score and/or class determined: at the use of the Results in the following table.       X       Marcel at hyperate, but or classified as measure, following.)         2       Score and/or class determined.       X       Marcel at hyperate table.)       X         3       Score and/or class determined.       X       Marcel at hyperate table.)       X         4       Score and/or class determined.       X       Marcel at hyperate table.)       X       Marcel at hyperate table.)         1       Score and/or class determined.       X       Marcel at hyperate table.)       X       Marcel at hyperate table.)       X       Marcel at hyperate table.)         1       Score and/or class determined.       X       Marcel at hyperate table.)       X       Marcel at hyperate table.)       X		a glow rather than a hame, (4)	3	Odor produced.
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vertex more service constraints       E       See Test Report         * Percentracical Numbers are the order of Preference in the use of the Results Indicator (RI) in the Test Data Listing.       E       See Test Report         * Feat type code indicates type of t . performed. These codes and their definitions appear in the following table.       Test Type (TT) Code Definition         **       Prementic Impact (Gaseous Oxygen)       Impact (Gaseous Oxygen)         **       Prementic Impact (Gaseous Oxygen)         **<	Image: Some advocation of performed and the use of the Results Indicator (RI) in the Test Data Listing.       Ever tandaction developed advocation of performed and the use of the Results Indicator (RI) in the Test Data Listing.         If Test uper code indicates type of 1 to performed. These codes and their definitions appear in the following table.       Itest uper code indicates type of 1. performed. These codes and their definitions appear in the following table.         If Test uper code indicates type of 1. performed. These codes and their definitions appear in the following table.       Itest uper code indicates type of 1. performed. These codes and their definitions appear in the following table.         If Test uper code indicates type of 1. performed.       Itest Ode Definition         If Test uper code indicates type of 1. performed.       Itest Ode Definition         If Test uper code indicates the following table.       Itest Ode Definition         If The material indication of the material is used to the following table.       Itest Ode Definition         If The material indication of the material is used to the following table.       Itest Ode Definition         If the disposit if test (LOX and other fluids)       Itest of the material is used to the definition         If the disposit if the fluid inposit if the intervention is performed.       Item and the victor definition material is used to the definition material is used to the ode of the material and the three definitions for basis of defining materials.         If the disposit if the intervent is avaitable.       Item and to the indicate intervent.	Image: Second state of the second state of the Results indicator (RI) in the Test Data Listing.       Event Results indicator set the order of Preference in the use of the Results indicator (RI) in the Test Data Listing.         Image: Test Lippe code indicators type of 1 - performed. These codes and their definitions appear in the following table:       Image: Test Lippe code indicators (Researd Soviet)         Image: Test Lippe code indicators (Researd Soviet)       Image: Test Lippe code indicators (Researd Soviet)         Image: Image: Image: Classeous Obyers)       Image: Image: Classeous Obyers)         Image: Researd Code (Researd Object)       Image: Researd Classeous Obyers)         Image: Researd Object       Image: Researd Object         Image: Researd Object       Rest Researd		Incoactusive results. (related to configuration testingnot to be	۶	Melted (not accompanied by burning).
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Test Type (TT) Code Definition           Premmatic Impact (Gaseous Oxygen)           Immegravimetric Analysis (TGA)           Finame and Fire Point           Reaction Proceeding           Immegravimetric Analysis (TGA)           Finame and Fire Point           Reaction Proceeding           Reaction Proceeding           Finame and Fire Point           Reaction Proceeding           Reaction Proceeding           Reaction Proceeding           Reaction Final applications for which the material is tested.           Reactions the functional applications for which the material is tested.           Reactions additional applications for which the material is tested.           Reactions additional applications for which the material is tested.           Reactions additional applications for which the material is tested.           Reactions additional applications for which the material is tested.           Reactions additional information, primarily of a chemical nature if available.           Reactions additional information.           Reactions additional information.	Test Type (TT) Code Definition         1       Test Type (TD) Code Definition         1       Thereparate Impact (Gaseous Oxygen)         1       Thereparate Impact (Gaseous Oxygen)         1       Thereparate Impact (Gaseous Oxygen)         1       Thereparate (Gaseous Oxygen)         2       Flane and Fare Point         3       Reaction Properties         4       Manageria         5       Fland Impact Test (LOX and other fluids)         6       Fland Impact Test (LOX and other fluids)         7       Fland Impact Test (LOX and other fluids)         6       Manageria         7       Fland Impact Test (LOX and other fluids)         6       Manageria         7       Fland Impact Test (LOX and other fluids)         7       Fland Impact Test (LOX and other fluids)         8       Manageria         9       Manageria         9       Fland Impact Test (Lox and other fluids)         9       Manageria         10       Fland Impact Test (Los a six-lettere	Test Type (T1) Code Definition           10         Prematic Impact (Gaseous Onyem) Intermentation Induct (Gaseous Onyem) Intermentation Induct Intermentation Induct Intermentation Presention (Gaseous Onyem) Intermentation Presention Induct Intermentation Presention Induct Induction Presention Induct Induction Induction Induction Intermentation Induction Induction Intermentation Induction Induction Induction Induction Induction Induction Induction Induction Induction Induction Induction Inductina Induct	T Test	type code indicates type of tperformed. These codes and their definitions	s appear in the follo	wing table.
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<b>INTERIAL COVE functual code, a</b> six-letter (three pair) code capable of defining naterials, components, subassemblies, etc. generically and functionally. The first pair of lette the codes describes the functional applications for which the material is tested. The second pair of letters describes the basic chemical composition of the material and the third ba these describes additional information, primarily of a chemical nature if available. <b>INE OF REPORT</b> Date moort is generated.	MATERIAL CODE Instantial code, a six-letter (three pair) code capable of defining materials, components, subassembles, etc. generically and functionally. The first pair of letters made codes describes the functional applications for which the material is tested. The second pair of letters describes the basic chemical composition of the material and the third barr describes additional information, primarily of a chemical nature if available. DATE OF REPORT Data ment is generated.	ANTERIAL CODE fusterial code, a six-letter (time pair) code capable of defining materials, components, subassembles, etc. generically and functionally. The first pair of letters material applications for which the material is tested. The second pair of letters describes the basic chemical composition of the material and the third parters describes the pasic chemical composition of the material and the third parters describes the pasic chemical composition of the material and the third parters describes the pasic chemical composition of the material and the third parters describes the pasic chemical composition of the material and the third parters describes the pasic chemical composition of the material and the third part of a chemical parter if available.	<b>1</b> 1 1 1 1	Autoriganition Terst. Fluid Impact Test (LOX and other fluids)		
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Dates.

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E2-2

The following information is a litting of material usage and generic identification found in the NB/PT-71-45 Test Data Listing. This code contains six letters (three groups of two each). The first group refers to the functional application of the material, while the second gives the chemical composition. The third group will give additional information, usually chemical information if available. Reference is made to all of this information as number sixteen of the key on pages E2-1 and E2-2.

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CODE	LISTING	PATERIAL CODES (COPAT) Definition	PLGE - Table
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VV	ABSORBER	ABSORBER, N.O.C.	~ <b>-</b>
<b>A</b> B	ADHES	ADHES STANDOC	-1 -
AC AC	ADHES,FILH		-
	ABHESINGI AELI Adhes 11011a	ADHES	
u K≺	ADHES, PRESS SENS	ADHES (*) PRESSURE SENSITIVE	-
<b>A</b> G	ADHES. PRIMER	ADHESIVE, PRIMER	-1
H	BEARING MATL	BEARING MATERIAL, N.O.C.	<b>-</b> 4
IV	CHEMICAL	CHEHICAL, N.O.C.	-4
AK	COATE	COATING, N. D. C.	<b>1</b> .
AL	COATG, CONFORMAL	COATING, CONFORMAL	; <b></b>
H¥	COATG, ELEC CONDUCT	COATING, ELECTRICALLY CONDUCTIVE	<del>,</del>
AN	COATG, FLUIDIZED	COATING, FLUIDIZED	
<b>V</b>	COATG, FRICTION	COATING, FR CTION	<b></b>
đ	COATE, INK	COATING, INK, N.O.C.	-1
ØV	CCATG, INK, S SCRN	COATING, INK, SILK SCREEN	-4 (
AR	COATS, INTUNESCENT	COATING, INTUMESCENT	r# 4
SI V	COATG, LACQUER	COATING, LACOUER	-4 -
	CUALG, FALMI 20.10 DOINED	COATTRE PRIME	4 -
>>	CORTESTER Postestemp pontrol	COATING.TEMPERATURE CONTROL	• •-4
76		COMPOUND.N.O.C.	-
	COMPOUND, GREASELIKE	COMPOUND, OREASE, N.O.C.	7
X	COMPOUKD, HEATSINK	COMPOUND, HEATSINK	♥.
ZV	COMPOUND. MOLDING	COMPOUND, ROLDING	7
84	COMPOUND, POTTING	COMPOUND, POTTING	<b>1</b> '
88	COMPOSITE	COMPOSITE,N.O.C.	-
90	CONNECTOR, ELEC	CONNECTOR, ELECTRICAL	<b>1</b> -
0.8	ELEC PART	ELECTRICAL PART,N.O.C.	7
θE	ELEC PART, MOLDED	ELECTRICAL PART, MOLED	-4
BF	FABRIC	FABRIC.N.O.C.	<b>64</b> 4
9 d. (	FABRIC, COAT/IMPREG	FABRIC, CUASED UN IMPREGNAIED	r-1 •
H6	FABRICSELASTIC	FABRIC.ELASIIC	- <b>4</b> -
	FABRIC,FELI ridoir fiitheac	F # 8 K   C, F E L   F 4 D 0 F F 4 X V F 4 X V F 4 D 0 F 7 4 D 0 F 7 4 X V F 4 X V	
73	P ABRIC . LA MEAVE		-

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NASA MATERIAL CODES (CONAT) DEFINITION

LISTING

CODE

GASKETING OR SEAL, N.O.C. Gasketing or seal, rad! 5 frequency interference shield INSULATION, THERMAL, N.O.C. INSULATION, THERMAL, COMPOSITE LAYINATE, COTTON CLOTH BASE Laminate, glass fiber base FOAK,N.O.C. FOAM,FLEXIBLE CLUSED CELL FOAM,FLEXIBLE CPEM CELL FLUID, HALOCARBON, N.O.C. INSULATION, THERMAL, FILM FASTENER, N. U. C. FASTENER, NOCK AND PILE FLUID, PERFLUORD, N. D.C. LAMINATE,N.O.C. Laminate,Asbestos Hase FOAM, RIGID, CLOSED CELL FOAM, RIGID, OPEN CELL LAMINATE, MICA RASE FABRIC, DUCK WEAVE FABRIC, PEA WEAVE FILM, PHOTOGRAPHIC FINISH, N.O.C. FINISH, INORGANIC IMPREGANT, N.O.C. c FOAM, METALLIC FILM, DRAFTING FABRIC, WEBB' FLUID, N.O.C. LABEL.N.C.C. FILM, N.O.C. FILM, RUBBER FOOD.N.D.C. FLUX + PILE FOAM, RIGID, CLOS CELL FOAM, RIGID, OPEN CELL LAM, COTTON CL BASE Lam, CLASS FIBER BASE FOAN Foam,flex,clos gell Foam,flex,open gell NSUL, THERM, COMPOS NSUL, THERM, FILH OASKETING/SEAL Basketi'G/Sfal, Rfi Impregrant FABRIC, DUCK WEAVE FABRIC, OPEN WEAVE FILM.PHOTOGRAPHIC AM, ASBESTOS BASE FLUID, HALOCARBON INISH, INOGRANIC FLUID, PERFLUORO FABRIC, HEBBING FASTENER, HOOK FILM, DRAFTING FOAM, HETALLIC LAN, MICA BASE NSUL, THERN FILK, AUBBER FASTENER HSINIJ FLUID ABEL FILM FUOD FLUX X. 204 2 - J I いみ うおう 今日 ちゅじじじじじ しじじじじじじじじじじじじじじ いいち ちょう インマンド マイロじひ モールドー プメード かっかっ よう

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FIAL CODES (COMAT) FIMITION	<pre>Finate, the Base atter.n.u.c. atter.n.u.c. atter.n.u.c. atter.n.u.c. atter.synt.eti( atter.synt.eti( atter.synt.eti( atter.n.n.u.c. bericant.d. bericant.d. bericant.d. bericant.d. bericant.d. bericant.d. bericant.d. bericant.d. bericant.d. scellaneous.edi scellaneo</pre>
A 1. A 1 A 1. A 1 A 1. A 1 A 1. A 1. A 1	
LISTING	LAM, PAPER BASE LAM, PREPREG LEATHER, MATURAL LEATHER, MATURAL LEATHER, NATURAL LUBE, RY FILM LUBE, RY FILM LUBE, RY FILM LUBE, GREASE LUBE, GIL HISC, BAG HISC, BAG HATL, I PART SEALANT MATL, I PAR
CODE	じしししじ おみねみね あねねおひ ひひひひひひひひ ひかん あししじ しょう しかえ かんねん ひょう ビー・ビー ドレット マー・レンド メッス みんし

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CODE	LISTING	MATERIAL CODES (COPAT) Lefibition	F 4 0 E - T 4 B L E
E 1)	THREAD	THFEAD, N.O.C. They G.M.D.C.	44
ب ب ب	TUBING KLEXIBLE	TUBLAGFEXITLE	
. H	TUJING, HEATSHRINK	TUBIPG, TEAT SHRIPK	-4 ·
E 1	TUBING, PLASTIC	TUBING, PLASTIC	- 1
ЕJ	TUBING, RIGID		rd #
ž i	TUBING, RUBBER Let Be	1 U F 1 66, K U B B E K F 1 P F , N - (1 - (2 -	4
	WIRE.CABLE	HIPE, CABLE	7
2	WIRE, CABLE, SHLD	MIRE, CARLE, SHIELDED	<del>-1</del> 1
EO	WIRE, COAX	WIRE, COAXIAL	u <b>-1</b> a
<del>с</del> Р	<b>WIRE, INSULATED</b>	WIRE, INSULATED	- 1
0 11	WIRE, SHIELED	NIRE, SHIELF!	-1 •
5	<b>WIRE, MAGNET</b>	WIRE, MAGNET	rt e
E S H	FOAM.FLEX	FOAM, FLEXIBLE, AUC	-1 4
L.	FOAM, RIGID		-4 -
); U		CORU(NUT ELECTPICAL) Composition and attuce	• •
1 ) 1 4	CURP, AULA! IVE Accv		1
< > u u			i1
52	ASSYLELEC	ASSEMBLY, ELECTRICAL	-
	ASSV. HYL	ASSEMBLY, HYDRAULIC	<b>e4</b> 1
<b>F</b> 8	ASSY, COMPLEX	ASSEFBLY, COMPLEX	<del>7</del> 4 (
5	ASSY, MECH	ASSEMBLY, MECHAMICAL	-1
50	ASSY, PAKEL	ASSEMBLY, PANEL	<b>**</b> 1 (
للر الل	ASSY, PNEU	ASSEMBLY, PHEUNATIC	- I -
	ASSY, AIREBDL	ASSEMBLY, MIREBUNDLE, INCLUE HARRES MINANO CLARS, CNEC	-
6	ASSY, SUIT	ASSEMBLY, SUIT OR MAJOR PUNTIONS THEREOF.	-1 -
H L	FOAM, LIGUID	FOAM, LIQUID	<b>r</b> f (
 	PISK	LISK, N. 0.C.	-
F J	[NSULATION	INSULATION, 4.0.0.C.	- •
¥ 4	SOLBERING MATL	SOLDERING MATL, W.O.C.	-
7	BRAZING MATL	BRAZING MATL, .U.C.	-1 4
X L	HELUING MATL		-4

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ERIAL CODES (C Efinition	ETAIL DNBS • 0 • C •		-	
TAM ASAN U	ECS USED ON			دی محد می این این دوروژور و و یای تیندارمویاسارین دید م
LISTING	PROCESS SPE		•	
CODE	9 X N X			Machine an machine Ann an Machine An Ann an Ann an Ann

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PAGE ACETAL, E.G., COPOLYMER (CELCOW), HOMOPOLYMER (DELRIN) HODIFIED (FOR USE IN COLUMNS 5 + 6) Polyinyl Chlorife, plastisol or organosol ACRYLIC, BUTYL METHACRYLATE Acrylic, Methyl Methacrylate, Cast /crylic, Methyl Methacrylate, Mulding Type CHLURINATED POLYFTMER (E., PEWTRON) ACRYLONITRILE-BUTADIENE-STYRENE AMINÜ,MÇLAMINE-FORMALDEMYDE(MF) SEE URETHANE, SPANDEX FOR CODF CELLULOSE AC¢TATE Cellulose Acetate-Butyrate NO CODE-TRAVE NAME DUPOMÍ Nu code-see urethamé. Nú code-!ee amino ALLYL,N.0.C. Allyl,Diallyl Phimalate Aminc,N.0.C. ANINO, UREA-FORMALDEHYDE URETHANE, MOISTURE CURED ZINC CHROMATE PIGMENTED CELLULOSE PF.OPIONATE CELLULOSE TRIACETATE NASA MATERIAL CODES (CONAT) CELLULOSE NITRATE CELEULOSIC, A.O.C. CODE-SEE AMIND ETHYL CELLULOSE ACRYLIC.N.O.C. ACRYLIC LATEX ALKYD.N.O.C. LATEX.N.O.C. EPOXY ESTER DEFIAITION SHELLAC 2 ACRYLIC, BUTYL METH. . ANINO. MELA-FORM(MF) , AMINO, UREA-FORM(UF) ZINC CHROMATE PIGHT CELLULOSE ACET-BUT CELLULOSE,ETHYL CELLULOSE,ETHYL CELLULOSE PROPION. CELLULOSE TRIACET. CHLORIN.POLYETHER JURETHANE, H20 CURED CELLULOSE ACETATE ACRYLIC, PMMA, MLDG ACRYLIC LATEX PVC.PLASTISOL ,EPOXY ESTER , ISOCYANATES , ACETAL. PON CELLULOSIC , ALLYL, DAP , MODIFIED , MELANINE , SHELLAC , ACRYLIC , SPANDEX , FREONS LIST'NG AHIND ,LATEX , ALKYP , ALLYL UREA. , ABS CODE Z 44444 ΗV 7 X 4 V JE N 2 НĶ X ¥ N N 88 aw ▼. S.W 14 0 4 B 4 4 Š 4

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NASA MATEMIAL CUDES (COMAT) Defititon

LISTING

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POLYCHLOROTRIFLUGADETHYLERE RESIN (E.G., KEL-F 81,82) EPOXY, CATALYTICALLY CURED (F.G., BF3-400 CURED) PERFLUCRO (ETHYLENE-PROPYLENE) COPOLYMER POLYPHENYLFME OXIDE,N.O.C. (E.G.,PPO) Polysulfone,N.O.C. Polyinyl fluoride (e.G., Tedlar) CHLOROTRIFLUOVOETPYLENE, N. J. C. Polychlopotrifluovoethyle, E, Fillej EVA (ETHYLENE-VINYL ACETATE),N.0.C PMENOLIC(PF)(PHENOL-FORMALDEHYDE) POLYETHYLENE TERPHTHALATE(PETP) CONOMER, N.O.C. (E.G., SURLYN A) EPOXY, HOVOLAK EPOXY, POLYAMIDF CUREP EPOXY, PROPRIETARY OR UNKNUWN HYLON, 6,6 TYPE Nylon,Soluble Nylon,Aromatic (e.g.,Momex) POLYOLEFIN, POLYPROPYLENE POLYOLEFIN, FULYETHYLENE EPOXY,N.O.C. EPOXY,AMINE CURED EPOXY,ANHYDRIDE CURED ARBONATE, N.O.C. CHLOROFLUORU, N.O.C. POLYBUTYLENE,N.O.C. POLILIIAEPAN.O.C. POLYINIDE.N.O.C. POLYOLEFIN, N.D.C PARYLENE.N.O.C. PLASTICS.N.O.C. SILICONE, N.O.C. F1 UORO, N. 0.C. NYLON, N.O.C. FURAN.N.O.C à . EPOXY, ANHTU, CUKED . EPOXY, CATALYT. CURED .EPOXY, NOVOLAK , EPUXY, POLYAM, CURED , EPOXY, PROPRI, OR UNK EVA (ETH-VINYLACET) EPOXY, AMINE CUREL POLYCARBONATE (PC) PE TEREPHTHALATE POLYPHENYL.OXIDE . "ARYLENE, N.O.C. .NYLON (6.6) .NYLON.SOLUBLE .NYLON.ARDMATIC POLYOLEFIN, PP PHENOLIC (PF) ,POLYOLEFIN ,POLYOLEFIN,PE CHLOROFLUORO **POLYBUTYLENE** , CTFE, FILLED POL YSULFONE CTFE RESIN , POL YESTHER , POLYIMIDE PLASTICS SILICONE . JONOMER ,FLUORD . NYLON , EPOXY . FURAN , CTFE , FEP PVF ນ ເຊ 96 08 80 87 101 BC 8 X 38 A C 80 80 80 E. H B 8 ž 9.0 B A Xa **8**≺ 87 2 55 **T** 3 В 5

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VASA MATERIAL CODES (CULAT)

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LISTING

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TETRAFLUORDETHYLENIC...D.C. Tfesfte resin (t.g.,Teflue Tfeshalon Tfesthiokol Tfe Tfesfte filled (e.g.,Rulen,fluðrogreen) Uretmanesn.g.C. (see also Pupher and Coatings Lists) FLUORGELASTÜMER, N.G. (E.º., FLUUREL) Virylide flugaide and Hexafludurpropylene cupulymen Fluorusilicune rubrer (FSI), .U.C.(E.G., Silastic LS) CHLUROSULFONATED PULYETHYLENE, C.C. (E.G., HYPALON) ETHYLENE PROPYLENE RUBBER(EPI ... EPM.EPR). N.C.C. RUPHER, FILLED (SHE ALS" FLUOROSILICONE.) VULCANIZING VULCAMIZING RU FET, FAGI TEAPTINE RUALEN, FORN TEMPINATURE CHLOROFLUORU ELASTOMER, N. C. C. CHLOROPRENE, 0. C. C. CHLOROPRENE, 0. C. (NEDPRF.E) POLYISOBUTYLENE AURBERIN. ...... SYNTHETIC ISOPREME HUBBER POLYSULFIDE RUBBER, MILLED POLYSULFIDE RUBBER, LIGUIC URETHANE, RESINOUS, L. O.C. NATURAL ISOPPENE RUBBER VINYL, POLYVIAYL ACETATE BUTADIENE RUHBER,4.0.C. VINYL, POLYVIAYL ALCHOL RUSHER,: .U.C. ACRYLIC RUBBER, N.O.C. STYRENE-ACRYLONIT?ILE NITRILE RUREER.N.O.C. BUTYL RUBBER.N.O.C. POLYSULFIDE, N.O.C. SILICONE, RESIAUUS URETHANE, SPA. DEX NECLAINE" RUPBER VINYL, N. U.C. (E.G. KYIAR) SILICUNE SILICUNE SILICONE SILICANE FLUDROSILICONE HUG. . MITHILE RURBER (CHK) SILIC.RUB, ILLED Silic.Rub, TV 1Pakt SILIC.RUB.ATV 2PART POLYISOBUTYLENE KUF STYRENE-ACRYLOWITR CHLUROPREN = (CR) , CHLUROSULF .PE(CSM) , POLYSULFIDE, FILLED POLYSULFIDE . LIQUID , CHLOROFLUDRO ELAST SILICONE, RESINCUS , URETHANE, RESINCUS , ISOPRENE(SYN), IK , ISOPRENE (NAT) , MI . URETHANE, SPANDEX RECLAIMED PUEBER ,FLUUPOELAST FPM FILLED TFE, PTFE RESIN ACRYLIC RUBBER ET4-PR0P.RU9. , BUTAPIENE(HR) . POLYSULFIDE **FLUOROELAST** VINYL, PVAC SUTYL(IIR) VINYL, PVAL , SILIC. RUB , URE THANE JYNIV. , TFE , VF2 00 30 5 S 25 č CΥ 36 ÐC Ha 20 aQ N C N 5 3 22 Z Sa 5 500

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MASA MATERIAL CUDES (CUPAT) PEFINITION LIJI 3 CODE

URETHAME RUBBER,LIDUID,AMINE CURE Urethame Rubber,Liduid,Catalytically Cured U.ethame Rufber,Liduid,Polyul Cure ETHYLENE-GLYOL 35 PCT.WATEP 65 PCT.N.O.C. Heat transfer,N.O.C. Processing,N.O.C. Profylene glycul-water,N.U.C. Diester,N.O.C. PLUS SOAP Vegitable oil hase (e.g.,castop),n.d.c. METALLIC BASE,N.O.C. Molyrdenum disulfide base,N.O.C. METHYL ETHYL KETONE, (MEK), N.O.C. MIXED LACOUER THINNER, N. D. C. FLUOROCARBON TELOMER, N.O.C. MIXED PAINT THINNER, N.O.C. CHLOROPHENYLPHENOL, N.O.C. RUBBER TRICHLOPOETHYLENE, N.O.C. HYDROCARBON HASE, 4.0.C. UPETHANE RURPER, .0.C. URETLANE RUBBER, FILLED DIESTER, PHOSPHATE TYPE FLUOROSILICONLAN.0.C. GRAPHITE BASE N. 0.C. BENZOIC ACIL, N.O.C. METHANOL Methylene chlop1fe STYRENE-BUTADIENE BENZEDRINE, N.O.C. SOAP BASE, N.O.C. TOLUENE, N.O.C. ASPIRIN, N.O.C. XYLENE, N.O.C. FLUORESCETN ACETONE URETH.RUB,LIO CATAL, URETH.RUB,LIO POLYO URETH.RUB, LIO AMINE, URETH.RUB, LIO CATAL ET-GLYCOL-H20 35-36 Heat transfer MIXED PAINT THINNER METHYL ETHYL KETONE FLUOROCARB. TELOMER "MIXED LACO THIRNER STY-BUTADI.RUB, S9R PROCESSING HOLYDISULFIDE BASE BASE METHYLENE CH. JAIDE , CHLOROPHENYLPHENOL , TRICHLOROETHYLENE **, URETH.RUB, MILLED** PLESTER, PHOSPATE HYDROCARBON BASE FLUORGSILICONE , GRAPHITE BASE VEGETABLE UIL BENZOIC ACID METAL BASE, , FLUORESCEIN **, BENZEDRINE** SOAP BASE URE TH. RUB , METHANOL ACETONE , DIESTER , TOLUENE . ASPIRIN XYLENE +SOAP EU ж ٨u 3 XD 20 - E E E E E E S E S Ě EX ц Ш 2 4 5 7 8 5 7 8 5 5

Prior to using this code in assigning a NASA MATERIAL CODE, refer to Page E2-16.

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E2-12

MASA MATERIAL CODES (COMAT) Definition

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SODIUM URTHOPHENYLPHENUL, ......... LITHIUM HYUROXIDE N. 6.C. FILLER, N. 0.C. FILLER, INORGANIC, V.O.C. FILLER, METAL, N.O.C. Filler, Urganic, N.O.C. HYDROCARBON, 1. . 0.C. GLASS FIBERANO.C. PENICILLIN, N.O.U. ALUMINIZED, .. 0.C. PLUS BINDER, N.O.C METALLIZED,N.0.C. PROPYLENE GLYCOL ALUMINUM.N.C.C. ASBESTOS, N. U. C. FINISH, FRICTION GRAPHITE.N.O.C. CADMIUM.A.O.C. FIWISH, N.O.C. LUTION, N.O.C. CARBON, N.O.C. COTTON.N.O.C. FILLED, N.O.C. METAL, N. U.C. F18ER.N.0.C. PILL, N. O.C. FIBEN, GLASS CORK, N.U.C. I SGPECPANOL DYE.K.O.C. GALVANIZE GERAICIDE CHANCIS AN ORTHOPHENYLPHENUL LITHIUM HYPROXIDE PROPYLENE GLYCOL FILLER, INOPGANIC FINISH, FRICTION FILLER, METAL FILLER, ORGANIC GLASS FIBER FIBER, GLASS , HYDROCARBON . ISOPROPANOL PENICILLIN . .LUMINIZED . PETAL IZED **GALVANIZE GERMICIDE** ALUMINUM ASBESTOS . GRAPHITE ,+BINDER CHANO IS , CADHIUP ,LOTIGN , CARBON COTTON FILLED. SFILLER HSINI7. , FIBER ;HETAL , CORK , DYE , PILL ¥ F 2 Z J 50 2 E 2 × 57 67 67 C B GŨ ن سر Ë Ľ 5 ۲ ۲ 90 9 L9 99 99 G.J 19 \* . .

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\* Prior to using this code in assigning a NASA WATEMIAL COTE, refer to Page E2-16.

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HETALLIZED HITH ALUMINUM, .. U.C. NOT ALUMINIZED

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HASA MATERIAL CODES (COLAT) DEFISITION

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|   | GL         | . 1PART              | CHE FART                 |
|---|------------|----------------------|--------------------------|
|   | 61         | PAPEP                | PAPET                    |
|   | GN         | , POLYELEND          | POLY: LENI, " . C.       |
|   | 60         | , PAYOF              | RAYUP                    |
|   | GР         | SILICATE             | SILICATE                 |
| • | 00         | SILVER               | SILVER                   |
|   | GR         | , TREATEL            | TREATED                  |
|   | 65         | , 2PART              | Twe PART                 |
| - | <b>6</b> 1 | CURRED'S             | UNKROHN                  |
|   | <b>n</b> 9 | UNENGHIS PRUPEIETAPY | UIKNCHN, PROPRIETARY     |
| - | θV         | , VULCANIZED FIBER   | VULCANIZED FIBER         |
|   | 64         | , WAX                | H A X                    |
|   | бХ         | , 460D               | 4 O C D                  |
|   | GΥ         | ,4000 FLOUR          | 1,000 FLOUR              |
| - | 62         | , HOOL               | HOOL                     |
|   | HA<br>A    | , 7 INC              |                          |
|   | HB         | POLYSTYRENE (PS)     | POLYSTYRENE POLYST       |
| _ | U<br>H     | VINYL, PVC           | VINTL POLYVINY CHIORIDE  |
| _ | 0H         | .RUBGER.N.O.C.       | RUBBEK N. D. C.          |
| - | ΗE         | , PB ]               | POLYHENZIMINAZOLE, NOC   |
| - | ΗF         | , P.ICA              | PICA, NOC                |
|   | НG         | , +F00E              | PLUS FOOL                |
|   | HH         | . ISOPRENE           | ISOPRENE, 4. C.          |
| _ | IH         | , MONEL              | P:UNEL                   |
|   | L<br>L     | .CARBUXYNITROSO      | CWR RUBBER, FUR EXAMILE  |
| - | ¥          | , SILICA             | SILICA, DUARTZ, ACC      |
|   | μ          | ,8ETA FIBER          | HETA GLASS FIBER , NUC   |
| - | II         | "HONEYCH             | KONEYCOME-LIKE STRUCTURE |
| • | ÷          | , COPPER             | COPPER, NUC              |
| • | ÷          | CEPAT IC             | CERAPIC, POC             |
| - | d H        | , FESORCINOL         | RESURCINOL               |
|   | 3 I        | FORMAL DEHYDE        | FORMALDEHYDE, 40C        |
|   | Ĩ          | , POILERPLATE        | EUILERPLATE, LARCE SCALE |
|   | Ş          | .COATED              | CUATED                   |
| - | H1         | , EXPTL              | EXPERIMENTAL             |

\* Prior to using this code in assigning a NASA MATERIAL CODE, refer to Page E2-16.

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| нX         | , buck-up            | r 004-0P 48 5045Y             |
| ΥH         | RALIJACTIVE HATL     | RAPICACTIVE NATERIAL          |
| ΗZ         | , rYLUr 6            | LEPHCLACTA, TYPE VYLPN        |
| A I        |                      | 6LASS, MOC                    |
| <b>1</b> , | CARBURANESILUXAME    | FGLYCAPACRA SILEAAE           |
| Ĵ          | POLYGULARXALINE RESI | ייייי 15 E ארוקר, איר איייייי |
| 11         | , SILICA GEL         | SILLUA SEL                    |
| XX         |                      | PL CLASSIFICATION             |
| ]<br>)-    | SFF REMARKS          |                               |

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NASA MATERIAL COBES (CUMAT) Defi itto~

CODE LISTING

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PAGE - 13 Table In order to facilitate the assignment of NASA MATERIAL CODES for metals as required for TEST CATEGORIES 'D' and 'J,' used in identifying TEST CATEGORY 'D' and 'J' metals. The 2nd pair of the NASA MATERIAL CODE will identify the base a special code table, "MATERIAL CODES FOR METALS," has been prepared and is tabulated below. Those codes identified on the previous pages by an asterisk (\*) have been assigned a new code beginning with the letter 'M' which shall be metal and the 3rd pair will identify the primary alloying element.

\* MATERIAL CODES FOR METALS \*

ALUMINUM Antimony Copper Steel, N.O.C.	HANGANESE Chrofium Iron 74040v	PLATINUM MOLYEDENUM MAGNESIUM	NICKEL Cobalt Lead	7 ERCURY 51 ***	T ( 14 254 60L0 VANA51UM Turgsten 21Relen
ALUMINUM Antifory Copper Steel	, MANGANESE , Chromith , 1700	, CARBUR , PLATINUM , MOLYADENUM , MAGNESIUM	, NICKEL , COBALT , LEAU	, MERCURY , SILVEH , TIN	, TITANIUA , Colú , Vanafium , Tuastea , 9eayelium
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MASA RATERIAL CODES (COMAT) CEFIMITION COVE LISTING

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MATERIAL TEST DATA FY MANUFACTUREP S DESIGNATION AS DE 31 JE 75

MEGR S DESIGNATION	MANUFACTURER	SPEC.	TEST RPT NO.	TESI	TFST	TEST	1 dial	40 0 H	۲۰٫۵۲٫۱	F 1 D F C	2.12	11	н а	11	1. 1.
		THICK.		FNVR	PRF SS	TEND	Frita	REACT	₽(+]+T	La	יוגד נ	05 S	1	ŝ	÷
			10-83-12	GOX	1000-0				0 <b>60</b> M	0005			6 V		
			X-01/9461-69	60 X	1000.0	707									
A-286 CRES STEEL	NR DOWNEY	.0750	70-2035	60 X	1500.0		50	00/00					1 T	10	XXUW
A-286 CRES STEEL	NR DOWNEY	• 0750	73-2035-1	60 X	1500.0			40/00						110	MDXX
A-286 STEFL	GAC		71-2319	A-50	570 U	462		-						E C	XX CH
A-286 STFEL	GAC		71-2319-1	A-50	701.0	487							1.15	NO	MDXX
A-286 STEEL	GAC		71-2319-2	A-50	179.0	517							15	Ĩ	XX QM
A-286 STEEL	GAC		2-6162-17	∆-5C	7/0	5 (19							1 15	RC	MDXX
A-286.IRON BASE ALLOY	GAC	.0750	70-2106	60 X	4500.0			00/04						Ĩ	M I X X
A-236.IRDN BASE ALLOY	GAC	.0750	70-2106-1	60 X	2000.0		50	00/07						D	XXIW
ADHESTVE 281	DOW CORMING CURF		7i-2670	60 X	1500.0			C1/02					1 10	AEC	CKCS
ADHESIVE 281	DON CONNING CORP		71-2670-1	GOX	1000.0				15	515			13	AE	CKGS
ADHESIVE 281	DOW CORNING CORP		71-24,70-2	GOX	1500.0		50	40/0u					AII	AEC	CKGS
AG COATED CU WIRE	GAC		71-2704	A-50	783.0	523							T 15	Ē	MCMR
AG COATED CU WIRE	GAC		71-2704-1	A-50	0-111	516							1 15		PIC N D
AGC-3-126	AGC INC.		71-2378	20X	500.0		50	00/04					TT V	6	CKXX
AGC-3-126	AGC INC.		71-2378-1	60 X	500.0			01/04					1 10	20	C i K X X
AGC-3-126	AGC INC.		71-2378-2	GOX	250.0			00/04				-	A 10	0,0	CKXX
AGC-3-176	ALC INC.		71-2378-3	GOX	100.0				530	534			0 13	No	CK XX
AGC-3-54-6 SILICONE	AGI INC.		71-2412	50 X	250.0			00/00				-	01 4	ž	CKXX
AGC-3-54-6 SIL CONE	AGC INC.		71-2412-1	Š	75 C				544	544			D 13	ž	CKXX
ALLDY 52			71-2589	60 X	1500.0			0/04				-	01 0	ž	1111 H
ALLDY 6262-19			71-2690	SOX SOX	15.0.0		50	00/04					A 11	С С	XXAM
ALLOY 6262-19			71-2690-1	60 X	1500.0			40/00				-	A 10	EXI	MAXX
ALNICO 5	GAC		71-2598	A-50	776.0	514							1 15	ŝ	MAME
ALNICO 5	GAC		71-25 8-1	A-50	781.0	517							1 15	₩ Q	MAMN
ALNICD 6/AU PLATE	PARKER AIRCRAFT		71-2421	A-50	754.0	504							1 15	10	UHQH
ALNEED 6/AU PLATE	PARKER AIRCRAFT		71-2421-1	A-50	771.0	10 J							F 15	110	UMQM
ALP. 1 FLUX NO. 90	ALPHA METALS		71-2270	60X	5.0	1000			666N	269N			J 13	8Z)	XXXX
ALPHA FLUX NO. 90	ALPHA METALS		71-2270-1	60 X	510.0		50	00/04					A 11	82)	XXXX
ALPHA FLUX NO. 90	ALPHA METALS		71-2270-2	Š	5(0.0			. 0/00					A 10	678	XXXX
ALSIMAG TEFLON COATED	AMEPICAN LAVA CORP		70-1874	х С С	50.0	1000			066N	060N			A 13	68)	XXXX
	AFFRICAN LAVA LUKP		66-0;	č č	4000.0			10/00					02 	8	K C X X
ALCIMEN LAN	AMENICAN LAVA CORP Amenican Lava Void		1-66-01	X NS	0.0064			10/00					0 10	ີອ	XXXX
ALSIMAC 645	AREALCAN SAVE CONTRACTION		2-66-01		0004		000	00 07					01: V	99	XXXX
ALTINAC A45	AMERICAN AVA CODE		10-00-6											200	X X X X X X X X
ALIN PHOSPHATE/ASRESTOS	REPLEMENTER CONT		+-55-01		1000.0		0.07	40/00						6 E	XXXX
ALMM DUCCDUATE /ACREAT	C.F. CHER MAT				0.06				126				51.1	3	
ALINE PHOSPHATE/ASSESTO	C.F. CHEM MAT		10-00-01		0.0001				6660				4 . 1	3	Ч Ч
ANIM DUCCDUATE /ACRECTIC			0 00 01	X 1 1 1	0.00				5552				5 T - 2		FLXX
	O G.C. CHEM MATI DEDT	0360	10-88-4		1000.0				666N	66611			1 	3	Ľ.×
ALUM PHE SPHATE / ASBESTO	S G.F. CHEM MATI DEPT	0250	10-88-1	< n.2	0,0005									5	× ;
ALUM PHOSE ATE/ASBESTOS	S G-E- CHEM MATL DEPT	•01-0	10-88-2	S IS	3500.0									Ē	× >
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| Fd 3 DEStruction         MMUMACTURER         SPEC.         Distruction         Distruction <thdistruction< th="">         Distruction</thdistruction<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FGR S DESTIMATION         MANUFACTORER         SPEC.<br>Image:<br>Sec. CHEM MATL DEFT         SPEC.<br>Sec. Sec. Sec. Sec. CHEM MATL DEFT         SPEC.<br>Sec. Sec. CHEM MATL DETT                                                                                                                                                                                                                                                                                                    |               |           |          |         |                      |            |          |             |        |        |        |         |          |            |                          |
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-----------------|
| India         Fund         Fund <tttttt<ttttttt<tttttttt<ttttt<ttttt< th=""><th>HILK.         FWN         FWN<!--</th--><th>MANUF AC TI</th><th>URER</th><th></th><th>SPEC.</th><th>TEST RPT 40.</th><th>TEST</th><th>TEST</th><th>TF 51</th><th>1 44 1</th><th>NO UF</th><th>יואטין</th><th>F 1 R F</th><th>10 1.01</th><th>Υ<br/>Γ</th><th>MAT</th></th></tttttt<ttttttt<tttttttt<ttttt<ttttt<>                                                                                                                             | HILK.         FWN         FWN </th <th>MANUF AC TI</th> <th>URER</th> <th></th> <th>SPEC.</th> <th>TEST RPT 40.</th> <th>TEST</th> <th>TEST</th> <th>TF 51</th> <th>1 44 1</th> <th>NO UF</th> <th>יואטין</th> <th>F 1 R F</th> <th>10 1.01</th> <th>Υ<br/>Γ</th> <th>MAT</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MANUF AC TI   | URER      |          | SPEC.   | TEST RPT 40.         | TEST       | TEST     | TF 51       | 1 44 1 | NO UF  | יואטין | F 1 R F | 10 1.01  | Υ<br>Γ     | MAT                      |
| LUE         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000         0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LUN PHOSFWATE/ASBESTOS G.E. CHEM MATL DEFT         -0750         10-88-5         GCX         4000.0           LUN PHOSFMATE/ASBESTOS G.E. CHEM MATL DEFT         -0750         10-88-5         GCX         4000.0           LUN PHOSFMATE/ASBESTOS G.E. CHEM MATL DEFT         -0750         10-88-5         GCX         4000.0           LUN PHOSFMATE/ASBESTOS G.E. CHEM MATL DEFT         -0750         10-88-5         GCX         4000.0           LUN PHOSFMATE/ASBESTOS G.E. CHEM MATL DEFT         -0750         10-985         GCX         4000.0           LUN PLOS         CALENANDEL         MOSFMATE         6005         4000.0         4000.0           LUN PLOS         CALENANDEL         MOSFMATE         6005         4000.0         4000.0           LUN PLOS         CALENANDEL         MOSFMATE         6007         4000.0         4000.0           LUN PLOS         CALENANDEL         MOSFMATE         4007         4000.0         4000.0           LUN PLOS         COLOR         MOSFMATE         MOSFMATE         4007         4000.0         4000.0           LUN PLOS         COLOR         MOSFMATE         MOSFMATE         4007         4000.0         4000.0           LUN PLOS         COLOR         MOSFMATE         4000.0         4000.0 <th></th> <th></th> <th></th> <th>THICK.</th> <th></th> <th>FAVR</th> <th>PPFS</th> <th>1 FMC</th> <th>ENFR</th> <th>RFACT</th> <th>PUINT</th> <th></th> <th>111 LOSS</th> <th>-</th> <th>50</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |           |          | THICK.  |                      | FAVR       | PPFS     | 1 FMC       | ENFR   | RFACT  | PUINT  |         | 111 LOSS | -          | 50                       |
| ULU         MOSOMATICASSESTIS         Color         OTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LUN PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0750 10-08-5 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0750 10-08-7 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0750 10-08-7 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0759 10-08-7 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0759 10-08-7 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0759 10-08-7 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0759 10-08-7 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0759 10-08-7 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0759 10-08-7 GOX 5000.0 LUNINA PHOSPANTE/ASSESTOS G.E. CHEM MATL DEFT 0759 10-08-7 GOX 5000.0 LUNINA POLOFA-AMOREL ADSCHMAT FM.C.CORP 0750 00-1995 1000 GOX 5000.0 LUNINA FOLK FETLETOR BEECH ATRCAFT 07-1995 1000 TO-1995 1000 GOX 5000.0 LUNINA FOLK FETLETOR BEECH ATRCAFT 07-1995 1000 TO-1995 1000 GOX 5000.0 LUNINA FOLK FETLETOR BEECH ATRCAFT 07-1995 1000 TO-1995 1000 GOX 5000.0 LUNINA FOLK FETLETOR BEECH ATRCAFT 07-1995 1000 TO-1995 1000 GOX 5000.0 LUNINA FOLK FETLETOR BEECH ATRCAFT 07-1995 1000 TO-1995 1000 TO-2994 1000 TO-1995 1000 TO-1995 1000 TO-1995 1000 TO-1995 1000 TO-1995 1000 TO-1995 1000 TO-2994 | TOS 6.E. CHEP | M MATL    | DEPT     | .0750   | 10-88-3              | COX        | 4000-0   |             |        | 00/00  |        |         |          | A 10       | 016                      |
| Utr         MOSAMIT(ASSET)S Gate         Control         District         Distric         District                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LUN         PHOSPAMET ASSESTOS G-E. CHEM MATL DEFT         07750         10-88-7         60X         5000.0           LUN         PHOSPAMET ASSESTOS G-E. CHEM MATL DEFT         07750         10-88-7         60X         5000.0           LUN         PHOSPAMET ASSESTOS G-E. CHEM MATL DEFT         07750         10-88-7         60X         5000.0           LUNIMA PODDER-MADOREL         NUSEMINT FMC. CORP         771-1995         60X         5000.0           LUNIMA PUDTER-MADOREL         NUSEMINT FMC. CORP         07750         70-1995         60X         5000.0           LUNIMA PUDTER-MADOREL         NUSEMINT FMC. CORP         07750         70-1995         60X         5000.0           LUNIMA PUDTER-MADOREL         NUSEMINT FMC. CORP         07750         70-1995         60X         5000.0           LUNIMA FOLL REFLECTOR REECH ALRCAFT         70-1995         60X         100.0         70-1995         60X         100.0           LUNIMA FOLL REFLECTOR REECH ALRCAFT         70-1995         702-1905         702-1905         60X         100.0           LUNIMA FOLL REFLECTOR REECH ALRCAFT         70-1995         702-190         702-1905         702-1905         60X         100.0           LUNIMA FOLL REFLECTOR REECH ALRCAFT         702-190         702-190         702-19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TOS G.E. CHEN | H MATL    | DEPT     | • 0.750 | 10-88-4              | X09        | 4500-0   |             |        | 00/01  |        |         |          | A 16       | 016                      |
| Lum         Constraint         Constraint <th>Lum         PMOSPART[X.SBESTOS         GCK         GOX         <thgx< th="">         GOX         GOX</thgx<></th> <th>TOS 6.6. CHE!</th> <th>H MATL</th> <th>0EP T</th> <th>•0750</th> <th>10-88-5</th> <th>20X</th> <th>5000.0</th> <th></th> <th></th> <th>70/00</th> <th></th> <th></th> <th></th> <th></th> <th>015</th>         | Lum         PMOSPART[X.SBESTOS         GCK         GOX         GOX <thgx< th="">         GOX         GOX</thgx<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TOS 6.6. CHE! | H MATL    | 0EP T    | •0750   | 10-88-5              | 20X        | 5000.0   |             |        | 70/00  |        |         |          |            | 015                      |
| Lum         Constant 1/A Sector         Cons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LINE MODERATIANDEL         COTS         Constraint         Const                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TOS G.E. CHEN | M MATL    | DEPT     | .0750   | 10-88-6              | 60 X       | 4000,0   |             | 200    | 10/00  |        |         |          |            | 015                      |
| Lumins         District         District <thdistrict< th=""> <thdistrict< th=""> <th< th=""><th>LINITIAN PONDER-MANUPEL         ROSE         CORP         TOP1985         COX         SOOD           LUNITIAN PONDER-MANUPEL         ROSEMINT FIG. CORP         70750         707100         500         20000           LUNITIAN PONDER-MANUPEL         ROSEMINT FIG. CORP         70750         707100         500         20000           LUNITIAN ALLOY 1145         GAC         ROSEMINT FIG. CORP         70750         707100         500         20000           LUNITIAN ALLOY 1145         GAC         ROSEMINT FIG. REELH ATRCART         70750         707100         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500</th><th>TOS G.E. CHEI</th><th>M MATL</th><th>DEPT</th><th>•0750</th><th>10-88-7</th><th>60 X</th><th>5000.0</th><th></th><th>200</th><th>00/07</th><th></th><th></th><th></th><th>4</th><th>11</th></th<></thdistrict<></thdistrict<> | LINITIAN PONDER-MANUPEL         ROSE         CORP         TOP1985         COX         SOOD           LUNITIAN PONDER-MANUPEL         ROSEMINT FIG. CORP         70750         707100         500         20000           LUNITIAN PONDER-MANUPEL         ROSEMINT FIG. CORP         70750         707100         500         20000           LUNITIAN ALLOY 1145         GAC         ROSEMINT FIG. CORP         70750         707100         500         20000           LUNITIAN ALLOY 1145         GAC         ROSEMINT FIG. REELH ATRCART         70750         707100         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TOS G.E. CHEI | M MATL    | DEPT     | •0750   | 10-88-7              | 60 X       | 5000.0   |             | 200    | 00/07  |        |         |          | 4          | 11                       |
| Lumine         Differential         Differential <thdifferential< th="">         Differential</thdifferential<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LIMITING PONCRE-MANDREL         NUSEMONT ENG. CORP         TO-1985         GOX         JS00.0           LUMITING PONCRE-MANDREL         NUSEMONT ENG. CORP         .0750         70-1995         GOX         JS00.0           LUMITING PONCRE-MANDREL         NUSEMONT ENG. CORP         .0750         70-1995         GOX         JS00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1995         GOX         JS00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1995         GOX         JS00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1995-2         GOX         JS00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1995-2         GOX         JS00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1995-2         GOX         JA00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1952-1         GOX         JA00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1952-2         GOX         JA00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1952-2         GOX         JA00.0           LUMITING FOLL RELECTOR BEECH AIRCART         .0750         70-1952-2         GOX         JA00.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EL ROSEMONT   | ENG. C    | 980      |         | 70-1985              | CO X       | 1500.0   |             | 50     | 00/00  |        |         |          | V II       | 00                       |
| Luminary Protect manuality         Comparison                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LURTING         PONDER: MANDREL         ROLOC         COC         TOO-1995         GCX         TOO-1005         GCX         TOO-000-0           LURTING         RELECTOR         REECH         ATRCAFT         70-1995         GCX         5000-0           LURTING         FOLL         REELECTOR         REECH         ATRCAFT         70-1995         GCX         5000-0           LURTING         FOLL         REELECTOR         REECH         ATRCAFT         70-1995         GCX         100-0           LURTING         FOLL         REELECTOR         REECH         ATRCAFT         70-1995-1         GCX         100-0           LURTING         FOLL         REEL         ATRCAFT         70-1995-1         GCX         100-0           LURTING         FOLL         REECH         ATRCAFT         70-1995-1         GCX         11-0           LURTING         FOLL         ATRCAFT         70-1991         77-0         11-0         77-0           LURTING         FOLL         ATRCAFT         77-0         77-0         11-0         77-0           LURTING         2014         CHRAFT         77-0         77-0         11-0         77-0           LURTING         2014         ATRCAF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EL RUSEMONT   | ENG. C    | ORP      |         | 70-1985              | Š          | 1500.0   |             |        | 40/00  |        |         |          | 4          | 2                        |
| Marka ALLOY 1155         GAC         OTION         Description         Description <thdes< th=""><th>LUNTING         ALLOY 115         GC         2000.0           LUNTING         FELECTOR         EECH AIRCRAFT         0750         70-2110         GCX         500.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         500.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         500.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         100.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         100.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         110.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         110.0           LUNTING         COLL         MAR         AIRCRAFT         70-1995         GCX         110.0           LUNTING         COLL         MAR         AIRCRAFT         70-2191         GCX         110.0           LUNTING         COLL         MAR         71-2391         A-50         771.0           LUNTING         COLL</th><th>EL ROSEMONT</th><th>ENG. C</th><th>OR P</th><th></th><th>70-1985-1</th><th>GOX</th><th>1500.0</th><th>1000</th><th></th><th>-</th><th>7994</th><th>1.900</th><th></th><th>21 V</th><th>00</th></thdes<>    | LUNTING         ALLOY 115         GC         2000.0           LUNTING         FELECTOR         EECH AIRCRAFT         0750         70-2110         GCX         500.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         500.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         500.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         100.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         100.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         110.0           LUNTING         FOLL         FELECTOR         EECH AIRCRAFT         70-1995         GCX         110.0           LUNTING         COLL         MAR         AIRCRAFT         70-1995         GCX         110.0           LUNTING         COLL         MAR         AIRCRAFT         70-2191         GCX         110.0           LUNTING         COLL         MAR         71-2391         A-50         771.0           LUNTING         COLL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | EL ROSEMONT   | ENG. C    | OR P     |         | 70-1985-1            | GOX        | 1500.0   | 1000        |        | -      | 7994   | 1.900   |          | 21 V       | 00                       |
| LUMING         ALL         ALL<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LUNING       FOIL       RELECTOR       BECH AIRCAFT       70-210-1       GCX       2500.0         LUNING       FOIL       RELECTOR       BECH AIRCAFT       70-1995       GCX       500.0         LUNING       FOIL       RELECTOR       BECH AIRCAFT       70-1995       GCX       500.0         LUNING       FOIL       RELECTOR       BECH AIRCAFT       70-1995       GCX       500.0         LUNING       FOIL       RELECTOR       BECH AIRCAFT       70-1995-1       GCX       500.0         LUNING       2014       CHINATE       MR       71-2520       MHH       A11.0         LUNING       2014       CHINATE       MR       71-2534       A46.0       771.0         LUNING       2014       CHINATE       MR       71-2334       A-50       771.0         LUNING       2024       GC       TO-2334       A-50       771.0       771.2         LUNING       2024       GC       TO-2334       A-50       771.0       771.2         LUNING       2024       GC       TO-2391       A-50       771.0       771.0       771.0       771.0       771.0       771.0       771.0       771.0       771.0       771.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GAC           |           |          | •0750   | 70-2110              | 60 X       | 2000.0   |             |        | 00/07  |        |         |          | A 10       | 11.0                     |
| Mark         FUL         Mark         FUL         Mark         M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LUMTINUM FOIL REFLETION BEECH AIRCRAFT       70-1995       GOX 500.0         LUMTINUM FOIL REFLECTOR BEECH AIRCRAFT       70-1995-1       GOX 1500.0         LUMTINUM 2014 CHRONIC       REMGAC       71-2520-1       MHH 444.0         LUMTINUM 2014 CHRONIC       GOX CHRONIC ANGAC       71-2520-1       MHH 444.0         LUMTINUM 2014 CHRONIC       ZO14       71-2530-1       MHH 444.0         LUMTINUM 2014 CHRONIC       ZO14       71-2334-1       A-50       771.0         LUMTINUM 2014 CHRONIC       ZO14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GAC           |           |          | • 0750  | 70-2110-1            | ž          | 2500.0   |             | ç      | 70/00  |        |         |          | A 11       | 1.<br>L                  |
| Markar<br>Lumino         FOIL         FEEL FUNC         FEEL FUNC <th< th=""><th>LUMINUM       FOIL REFLECTOR BEECH ATRCARFT       70-1995-1       GOX       1500.0         LUMINUM       FOIL REFLECTOR BEECH ATRCARFT       70-1995-1       GOX       100.0         LUMINUM       FOIL REFLECTOR BEECH ATRCARFT       70-1995-1       GOX       100.0         LUMINUM       FOIL REFLECTOR BEECH ATRCARFT       70-1995-1       GOX       100.0         LUMINUM       2014       EMINATE       MR       71-2520-1       MMH       644.0         LUMINUM       2014       CHRONIC ANGAC       71-2334-1       70-1995-1       GOX       4500.0         LUMINUM       2014       GAC       71-2334-1       4-50       771.0         LUMINUM       2024       GAC       71-2394-1       4-50       771.0         LUMINUM       2024       GAC       71-2394-1       4-50       771.0         LUMINUM       2024       GAC       71-2394-1       4-50       774.0         LUMINUM       2024</th><th>TOR BEECH AIF</th><th>RCRAFT</th><th></th><th></th><th>70-1995</th><th>X OS</th><th>500.0</th><th></th><th>50</th><th>00/04</th><th></th><th></th><th></th><th>A 1.</th><th>014</th></th<>                                                                                                                  | LUMINUM       FOIL REFLECTOR BEECH ATRCARFT       70-1995-1       GOX       1500.0         LUMINUM       FOIL REFLECTOR BEECH ATRCARFT       70-1995-1       GOX       100.0         LUMINUM       FOIL REFLECTOR BEECH ATRCARFT       70-1995-1       GOX       100.0         LUMINUM       FOIL REFLECTOR BEECH ATRCARFT       70-1995-1       GOX       100.0         LUMINUM       2014       EMINATE       MR       71-2520-1       MMH       644.0         LUMINUM       2014       CHRONIC ANGAC       71-2334-1       70-1995-1       GOX       4500.0         LUMINUM       2014       GAC       71-2334-1       4-50       771.0         LUMINUM       2024       GAC       71-2394-1       4-50       771.0         LUMINUM       2024       GAC       71-2394-1       4-50       771.0         LUMINUM       2024       GAC       71-2394-1       4-50       774.0         LUMINUM       2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TOR BEECH AIF | RCRAFT    |          |         | 70-1995              | X OS       | 500.0    |             | 50     | 00/04  |        |         |          | A 1.       | 014                      |
| Contract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LUMINUM FOIL REFLECTOR BECH AIRCRAFT       70-195-1       60X       100.0         LUMINUM FOIL REFLECTOR BECH AIRCRAFT       71-2520-1       MMH       610X       446.0         LUMINUM LEMINATE       NR       71-2520-1       MMH       646.0         LUMINUM LEMINATE       NR       71-2520-1       MMH       646.0         LUMINUM LEMINATE       NR       71-2520-1       MMH       646.0         LUMINUM 2014       CHROMIC ANGAC       70-1915-1       GOX       5500.0         LUMINUM 2024       GAC       71-2334-1       A-50       778.0         LUMINUM 2024       GAC       71-2394.1       A-50       778.0         LUMINUM 2024       GAC       71-2394.1       A-50       778.0         LUMINUM 2024       GAC       71-2394.1       A-50       778.0         LUMINUM 2024       SUF       M       GAC       71-2394.1       A-50       778.0         LUMINUM 2024       GAC       TO-2151.1       GAC       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | THE REFUNATI  |           |          |         | 70-1995<br>70-1006-1 |            | 500.0    |             | Ċ      | 40/00  |        |         |          | 4 10       | 10                       |
| Constraint         Constra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LUNING       FOIL REFECTOR BECH AIRCRAFT       70-1995-2       GOX       FOL         LUNING       EFINATE       NR       71-2520       MHH       FIL         LUNING       EFINATE       NR       71-2520       MHH       FIL         LUNING       EFINATE       NR       71-2520       MHH       FIL         LUNING       2014       CHRONIC ANGAC       71-2531       GOX       2500.0         LUNING       2024       GAC       71-2334-1       A-50       771.0         LUNING       2024       GAC       71-2334-1       A-50       771.0         LUNING       2024       GAC       71-2394-1       A-50       771.0         LUNING       2024       GAC       71-2391-1       A-50       771.0         LUNING       2024       GAC       71-2391-1       A-50       771.0         LUNING       2024       GAC       71-2391-1       A-50       78.0       0         LUNING       2024       SUL       A-50       78.0       0       71-2391-1       60X       500.0         LUNING       2024       SUL       A-50       78.0       71-2394-1       A-50       78.0       70-2157-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TOP DEFIN AT  |           |          |         |                      |            |          |             | 00     | +0/00  |        |         |          |            |                          |
| UPUIND       CHICK       MMH       R110       F1       FX4AXX         UPUIND       CHICK       MMH       R110       F1       FX4AXX         UPUIND       Z010       GAC       FX10       497       T1       T1       FX10         UPUIND       Z014       CHICK       MMH       FX10       497       T1       T1       FX10         ULUTIND       Z024       GAC       T1       T1       FX10       497       T1       T1       FX10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | LUMINUM       EFTINATE       MM       M11.0         LUMINUM       2014       FROMIC MIGAC       71-2520       MMH       M11.0         LUMINUM       2014       FROMIC MIGAC       771-2531       600.0       771.0         LUMINUM       2024       GAC       71-2534       4-50       771.0         LUMINUM       2024       GAC       71-2534       4-50       771.0         LUMINUM       2024       GAC       71-2334-1       A-50       771.0         LUMINUM       2024       GAC       71-2334-1       A-50       771.0         LUMINUM       2024       GAC       71-2394-1       A-50       769.0         LUMINUM       2024       SUL       71-2394-1       A-50       769.0       714.0         LUMINUM       2024       SUL       71-2394-1       A-50       769.0       714.0         LUMINUM       2024       SUL       71-2394-1       A-50 </th <th>TOA REFEM AT</th> <th>ACRAFT</th> <th></th> <th></th> <th>70-1005-2</th> <th></th> <th></th> <th>0001</th> <th></th> <th>10/00</th> <th>0000</th> <th>000.4</th> <th></th> <th></th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TOA REFEM AT  | ACRAFT    |          |         | 70-1005-2            |            |          | 0001        |        | 10/00  | 0000   | 000.4   |          |            |                          |
| UNING       CENTAGE       MIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LUMINUM       ECHIMATE       NIL       T1-2520-1       MIH       F46.0         LUMINUM       2014       CHROMIC       NGAC       T1-2520-1       MIH       F46.0         LUMINUM       2024       GAC       T1-2334-1       A-50       T77.0         LUMINUM       2024       GAC       T1-2334-1       A-50       T77.0         LUMINUM       2024       GAC       T1-2334-2       A-50       T77.0         LUMINUM       2024       GAC       T1-2334-1       A-50       T77.0         LUMINUM       2024       GAC       T1-2334-2       A-50       T8.0         LUMINUM       2024       GAC       T1-2394-3       A-50       T8.0         LUMINUM       2024       SUF       M       M-50       T8.0         LUMINUM       2024       SUF       M       GAC       T1-2394-3       A-50       T8.0         LUMINUM       2024       SUF       M       GAC       T1-2394-3       A-50       T8.0         LUMINUM       2024       SUF       M       GAC       T1-2394-3       A-50       T8.00       T1-2394-3         LUMINUM       2024       SUF       M       GAC       T1-2394                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |           |          |         | 71-2520              |            |          |             |        | -      |        |         |          | <br>-      |                          |
| LUNING         Control for Mark         Contre         Contre <thcontrol for="" ma<="" th=""><th>LUMINUR       2014       CHROMIC       ANGAC       70-2151       GOX       4500.0         LUMINUR       2024       GAC       71-2334       A-50       771.0         LUMINUR       2024       GAC       71-2334       A-50       771.0         LUMINUR       2024       GAC       71-2334       A-50       771.0         LUMINUR       2024       GAC       71-2334       A-50       773.0         LUMINUR       2024       GAC       71-2394       A-50       778.0         LUMINUR       2024       GAC       71-2394       A-50       778.0         LUMINUR       2024       GAC       71-2394       A-50       769.0         LUMINUR       2024       SULF       AM       GAC       71-2394       A-50       769.0         LUMINUR       2024       SULF       AM       GAC       71-2394       A-50       769.0         LUMINUR       2024<!--</th--><th></th><th></th><th></th><th></th><th>71-2520-1</th><th></th><th>0.110</th><th></th><th></th><th></th><th></th><th></th><th></th><th>- 1</th><th>5 2<br/>5 2<br/>5 2<br/>5 2</th></th></thcontrol>                             | LUMINUR       2014       CHROMIC       ANGAC       70-2151       GOX       4500.0         LUMINUR       2024       GAC       71-2334       A-50       771.0         LUMINUR       2024       GAC       71-2334       A-50       771.0         LUMINUR       2024       GAC       71-2334       A-50       771.0         LUMINUR       2024       GAC       71-2334       A-50       773.0         LUMINUR       2024       GAC       71-2394       A-50       778.0         LUMINUR       2024       GAC       71-2394       A-50       778.0         LUMINUR       2024       GAC       71-2394       A-50       769.0         LUMINUR       2024       SULF       AM       GAC       71-2394       A-50       769.0         LUMINUR       2024       SULF       AM       GAC       71-2394       A-50       769.0         LUMINUR       2024 </th <th></th> <th></th> <th></th> <th></th> <th>71-2520-1</th> <th></th> <th>0.110</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>- 1</th> <th>5 2<br/>5 2<br/>5 2<br/>5 2</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |           |          |         | 71-2520-1            |            | 0.110    |             |        |        |        |         |          | - 1        | 5 2<br>5 2<br>5 2<br>5 2 |
| Contrained       Contraine       Contrained       Contrained <th>LUMINUM       2014       CHRCINIC       AGC       771-0         LUMINUM       2024       GAC       771-0       771-0         LUMINUM       2024       GAC       771-0       771-0         LUMINUM       2024       GAC       771-0       771-0         LUMINUM       2024       GAC       748-0       778-0         LUMINUM       2024       GAC       71-2391-1       A-50       778-0         LUMINUM       2024       GAC       71-2391-1       A-50       748-0         LUMINUM       2024       GAC       71-2391-1       A-50       748-0         LUMINUM       2024       GAC       71-2391-1       A-50       748-0         LUMINUM       2024       SUF       AN       GAC       71-2391-1       A-50       748-0         LUMINUM       2024       SUF       AN       GAC       70-2157       GOX       5000-0         LUMINUM       2024-1351       GAC       70-2157       GOX       5000-0       11-2395-1       GOX       5000-0         LUMINUM       2024-1351       GAC       70-2157-2       GOX       5000-0       10-2157-2       GOX       5000-0       10-2151-1       GOX</th> <th>C ANGAC</th> <th></th> <th></th> <th></th> <th>70-2151</th> <th></th> <th></th> <th>,<br/>-<br/>1</th> <th></th> <th>70700</th> <th></th> <th></th> <th></th> <th></th> <th></th>                                                                                                                                                                                                            | LUMINUM       2014       CHRCINIC       AGC       771-0         LUMINUM       2024       GAC       771-0       771-0         LUMINUM       2024       GAC       771-0       771-0         LUMINUM       2024       GAC       771-0       771-0         LUMINUM       2024       GAC       748-0       778-0         LUMINUM       2024       GAC       71-2391-1       A-50       778-0         LUMINUM       2024       GAC       71-2391-1       A-50       748-0         LUMINUM       2024       GAC       71-2391-1       A-50       748-0         LUMINUM       2024       GAC       71-2391-1       A-50       748-0         LUMINUM       2024       SUF       AN       GAC       71-2391-1       A-50       748-0         LUMINUM       2024       SUF       AN       GAC       70-2157       GOX       5000-0         LUMINUM       2024-1351       GAC       70-2157       GOX       5000-0       11-2395-1       GOX       5000-0         LUMINUM       2024-1351       GAC       70-2157-2       GOX       5000-0       10-2157-2       GOX       5000-0       10-2151-1       GOX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | C ANGAC       |           |          |         | 70-2151              |            |          | ,<br>-<br>1 |        | 70700  |        |         |          |            |                          |
| LUNING       2000       640       777.0       690       777.0       690       777.0       690       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       691       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00       774.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LUNINUM       2024       GAC       71-2334       A-50       777.0         LUNINUM       2024       GAC       71-2334-1       A-50       777.0         LUNINUM       2024       GAC       71-2334-1       A-50       777.0         LUNINUM       2024       GAC       71-2334-1       A-50       778.0         LUNINUM       2024       GAC       71-2334-1       A-50       778.0         LUNINUM       2024       GAC       71-2391       A-50       778.0         LUNINUM       2024       GAC       71-2394-1       A-50       78.0         LUNINUM       2024       SUF AN       GAC       71-2391-1       A-50       78.0         LUNINUM       2024       SUF AN       GAC       71-2394-1       A-50       78.00         LUNINUM       2024       SUF AN       GAC       71-2395       GOX       5000.0         LUNINUM       2024-1351       GAC       71-2395       GOX       5000.0       10-2157-1       GOX       5000.0         LUNINUM       2024-1351       GAC       71-2395       GOX       5000.0       10-2157-1       GOX       5000.0         LUNINUM       2024-1351       GAC <th>C ANGAC</th> <th></th> <th></th> <th></th> <th>70-2151-1</th> <th></th> <th></th> <th></th> <th>C<br/>U</th> <th></th> <th></th> <th></th> <th></th> <th>4 4</th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | C ANGAC       |           |          |         | 70-2151-1            |            |          |             | C<br>U |        |        |         |          | 4 4        |                          |
| LUNING       202:       6.0       11-233-1       3-0       738.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       739.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0       730.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LUMINUM       2024       GAC       71-2334-1       A-50       714.0         LUMINUM       2024       GAC       71-2334-1       A-50       718.0         LUMINUM       2024       GAC       71-2334-1       A-50       718.0         LUMINUM       2024       GAC       71-2391       A-50       778.0         LUMINUM       2024       GAC       71-2391       A-50       785.0         LUMINUM       2024       GAC       71-2391       A-50       785.0         LUMINUM       2024       SUF AN       GAC       71-2394-1       A-50       785.0         LUMINUM       2024       SUF AN       GAC       71-2394-1       A-50       785.0         LUMINUM       2024       SUF AN       GAC       771-2394-1       A-50       785.0         LUMINUM       2024       SUF AN       GAC       70-2157       GOX       5000.0         LUMINUM       2024-1351       GAC       71-2394-1       A-50       789.0         LUMINUM       2024-1351       GAC       70-2157       GOX       500.0         LUMINUM       2024-1351       GAC       70-2157       GOX       500.0         LUMINUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | C DE          |           |          |         | 71-2324              |            | 777 0    | 700         |        |        |        |         |          | <br>       |                          |
| LUNTING       2024       GAC       T1-23345       A-50       771.0       511       711.0       511         LUNTING       2024       GAC       T1-23345       A-50       784.0       506       711.0       511       711.0       511       711.0       511       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.5       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.1       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0       711.0 </th <th>LUMINUM       2024       GAC       711-2334-2       A-50       771.0         LUMINUM       2024       GAC       711-2334-1       A-50       771.0         LUMINUM       2024       GAC       711-2334-1       A-50       775.0         LUMINUM       2024       SUF AN       GAC       711-2336-1       A-50       775.0         LUMINUM       2024       SUF AN       GAC       7750       775.0       775.0       775.0         LUMINUM       2024       SUF AN       GAC       7750       775.0       775.0       776.0         LUMINUM       2024-1351       GAC       7750       775.0       775.0       770-2191-1       GOX       1500.0         LUMINUM       2024-1351       GAC       77-2191-1       GOX       770-2191-1       GOX       770-2191-1       GOX       770-2191-1</th> <th>GAC</th> <th></th> <th></th> <th></th> <th>71-2334-1</th> <th>04-9</th> <th>738.0</th> <th>107</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>- #-</th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                 | LUMINUM       2024       GAC       711-2334-2       A-50       771.0         LUMINUM       2024       GAC       711-2334-1       A-50       771.0         LUMINUM       2024       GAC       711-2334-1       A-50       775.0         LUMINUM       2024       SUF AN       GAC       711-2336-1       A-50       775.0         LUMINUM       2024       SUF AN       GAC       7750       775.0       775.0       775.0         LUMINUM       2024       SUF AN       GAC       7750       775.0       775.0       776.0         LUMINUM       2024-1351       GAC       7750       775.0       775.0       770-2191-1       GOX       1500.0         LUMINUM       2024-1351       GAC       77-2191-1       GOX       770-2191-1       GOX       770-2191-1       GOX       770-2191-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GAC           |           |          |         | 71-2334-1            | 04-9       | 738.0    | 107         |        |        |        |         |          | - #-       |                          |
| LUNTING       2024       GAC       71-2334-5       A-50       78.0       505       71.5       71-7       15       71-7       15       71-7       15       71-7       15       71-7       15       71-7       15       71-7       15       71-7       71-7       15       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7       71-7<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LUMINUN       2024       GAC       765.0       768.0         LUMINUN       2024       GAC       71-2391       A-50       768.0         LUMINUN       2024       GAC       71-2391       A-50       768.0         LUMINUN       2024       GAC       71-2396       A-50       768.0         LUMINUN       2024       GAC       71-2396       A-50       768.0         LUMINUN       2024       GAC       71-2396       A-50       768.0         LUMINUN       2024       SULF       AA       GAC       765.0       768.0         LUMINUN       2024       SULF       AA       GAC       70-2157-1       GAX       5000.0         LUMINUN       2024       SULF       AA       GAX       5000.0       17-2396-1       A-50       768.0         LUMINUN       2024       SULF       AA       GAX       5000.0       17-2396-1       GAX       5000.0         LUMINUN       2024       SULF       AA       GAX       5000.0       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | GAC           |           |          |         | 71-2334-2            | A-50       | 771.0    |             |        |        |        |         |          |            |                          |
| LUNTINUE       2024       GAC       71-2391       A=50       795.0       513       71       15       71-447         LUNTINUE       2024       GAC       71-2396       A=50       795.0       510       710       71       501         LUNTINUE       2024       GAC       71-2396       A=50       785.0       510       710       71       501       71       501       71       501       71       501       71       501       71       71       501       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LUMINUM       2024       GAC       71-2391       A-50       795.0         LUMINUM       2024       GAC       71-2391-1       A-50       785.0         LUMINUM       2024       GAC       71-2396-1       A-50       785.0         LUMINUM       2024       GAC       71-2396-1       A-50       785.0         LUMINUM       2024       SULF       AM       GAC       70-2157-1       GOX       5000.0         LUMINUM       2024       SULF       AM       GAC       0750       70-2157-2       GOX       5000.0         LUMINUM       2024-17351       GAC       0750       70-2157-2       GOX       5000.0         LUMINUM       2024-17351       GAC       0750       70-2191-1       GOX       5000.0         LUMINUM       2024-17351       GAC       0750       70-2191-1       GOX       5000.0         LUMINUM       2024-17351       GAC       0750       70-2191-1       GUX       5000.0         LUMINUM       2024-17351       GAC       0750       70-2191-1       GUX       500.0         LUMINUM       2024-1351       GAC       V + W       MRCRAFT       CASTINGS       0750       70-2191-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GAC           |           |          |         | 71-2334-3            | A-50       | 768.0    | 508         |        |        |        |         |          |            | MIC .                    |
| LUTINUM       2024       GAC       71-2391-1       A=50       Rin, 0       513       71       19       17       19       17       19       17       19       17       19       17       19       17       19       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       13       17       14       17       13       13       17       13       13       17       13       13       17       13       13       17       13       17       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13       13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LUMINM       2024       GAC       71-2396-1       A-50       78.0         LUMINM       2024       SULF       AM       GAC       71-2396-1       A-50       789.0         LUMINUM       2024       SULF       AM       GAC       71-2396-1       A-50       789.0         LUMINUM       2024       SULF       AM       GAC       70-2157       GOX       5000.0         LUMINUM       2024       SULF       AM       GAC       70-2157-1       GOX       5000.0         LUMINUM       2024       SULF       AM       GAC       70-2157-2       GOX       5000.0         LUMINUM       2024-1351       GAC       0750       70-2191-1       GOX       1500.0         LUMINUM       2024-1351       GAC       0750       70-2191-1       GOX       1500.0         LUMINUM       2024-1351       GAC       0750       70-2191-1       GOX       1500.0         LUMINUM       2024-1351       GAC       70-2137       GOX       1500.0       1601         LUMINUM       356-16       V<+W       MIRCRAFT       CASTINGS       0750       70-2191-1       GOX       1500.0         LUMINUM       356-16 <td< th=""><th>GAC</th><th></th><th></th><th></th><th>71-2391</th><th>Å-50</th><th>195.0</th><th>503</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>MIC</th></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GAC           |           |          |         | 71-2391              | Å-50       | 195.0    | 503         |        |        |        |         |          | -          | MIC                      |
| LUMINUM       2024       GAC       71-2396-1       A-50       769.0       500.0       500       71       500 max         LUMINUM       2024       CAC       71-2396-1       A-50       769.0       510       71-2396-1       A-50       769.0       510       71       500 max         LUMINUM       2024       SUF       AN       GAC       71-2396-1       A-50       789.0       510       71       500 max       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71       71 <th>LUMINUN       2024       GAC       71-2396       A-50       769.0         LUMINUN       2024       SUF       AN       GAC       71-2396-1       A-50       769.0         LUMINUN       2024       SUF       AN       GAC       70-2157-1       GIX       5000.0         LUMINUN       2024       SUF       AN       GAC       70-2157-2       GUX       5000.0         LUMINUN       2024       SUF       AN       GAC       70-2157-2       GUX       5000.0         LUMINUN       2024-1351       GAC       70-2191       GUX       1500.0         LUMINUN       2024-1351       GAC       0750       70-2191-1       GUX       1500.0         LUMINUN       2024-1351       GAC       0750       70-2191-1       GUX       1500.0         LUMINUN       2024-1351       GAC       0750       70-2191-1       GUX       1500.0         LUMINUN       2024-1351       GAC       V + W       AIRCRAFT       0750       70-2191-1       GUX       1500.0         LUMINUN       356-16       V + W       AIRCRAFT       0750       70-2191-1       GUX       1500.0         LUMINUN       356-16       V + W</th> <th>GAC</th> <th></th> <th></th> <th></th> <th>71-2391-1</th> <th>A-50</th> <th>AIA O</th> <th>513</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>110</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LUMINUN       2024       GAC       71-2396       A-50       769.0         LUMINUN       2024       SUF       AN       GAC       71-2396-1       A-50       769.0         LUMINUN       2024       SUF       AN       GAC       70-2157-1       GIX       5000.0         LUMINUN       2024       SUF       AN       GAC       70-2157-2       GUX       5000.0         LUMINUN       2024       SUF       AN       GAC       70-2157-2       GUX       5000.0         LUMINUN       2024-1351       GAC       70-2191       GUX       1500.0         LUMINUN       2024-1351       GAC       0750       70-2191-1       GUX       1500.0         LUMINUN       2024-1351       GAC       0750       70-2191-1       GUX       1500.0         LUMINUN       2024-1351       GAC       0750       70-2191-1       GUX       1500.0         LUMINUN       2024-1351       GAC       V + W       AIRCRAFT       0750       70-2191-1       GUX       1500.0         LUMINUN       356-16       V + W       AIRCRAFT       0750       70-2191-1       GUX       1500.0         LUMINUN       356-16       V + W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GAC           |           |          |         | 71-2391-1            | A-50       | AIA O    | 513         |        |        |        |         |          |            | 110                      |
| LUMINUM       2024       GAC       71-2396-1       A-50       785.0       510         LUMINUM       2024       SUF       An       GAC       -0750       70-2157       G00       G00       A       10       71-11         LUMINUM       2024       SUF       An       GAC       -0750       70-2157-1       G0X       5000.0       00/04       A       10       711/233         LUMINUM       2024       SUF       An       GAC       -0750       70-2157-2       G0X       5000.0       00/04       A       10       711/233         LUMINUM       2024       SUF       An       GAC       -0750       70-2157-2       G0X       5000.0       00/04       A       10       711/233         LUMINUM       2024-T351       GAC       -0750       70-2191-1       GUX       500.0       00/04       A       10       711/233         LUMINUM       2024-T351       GAC       -0750       70-2191-1       GUX       500.0       00/04       A       10       710       710       710       710       710       710       710       710       710       710       710       711       711       711       710                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LUMINUN 2024       CAC       71-2396-1       A-50       785.0         LUMINUN 2024 SULF AN GAC       0750       70-21571       60X       5000.0         LUMINUN 2024 SULF AN GAC       0750       70-21577       60X       5000.0         LUMINUN 2024 SULF AN GAC       0750       70-21577       60X       5000.0         LUMINUN 2024 SULF AN GAC       0750       70-21577       60X       1500.0         LUMINUN 2024-T351       GAC       0750       70-2191-1       60X       1500.0         LUMINUN 2024-T351       GAC       0750       70-2191-1       60X       1500.0         LUMINUN 2024-T351       GAC       0750       70-2191-1       60X       1500.0         LUMINUN 2024-T351       GAC       V + W       AIRCRAFT CASTINGS       0750       70-2191-1       60X       1500.0         LUMINUN 2024-T6       V + W       AIRCRAFT CASTINGS       0750       70-2135       60X       1500.0         LUMINUN 2024-T6       V + W       AIRCRAFT CASTINGS       0750       70-2135       60X       1500.0         LUMINUN 2024-T6       V + W       AIRCRAFT CASTINGS       0750       70-22022-1       60X       1500.0         LUMINUN 6061       GAC       V + W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | GAC           |           |          |         | 71-2396              | A-50       | 769.0    | 496         |        |        |        |         |          | , -<br>, - | DIN                      |
| LUMINUM       2074       SULF       M       GAC       0750       70-2157       GIX       5000.0       50       00/04       A       11       07M 1XX         LUMINUM       2024       SULF       M       GAC       0750       70-2157-1       GIX       5000.0       00/04       A       10       07M 1XX         LUMINUR       2024       SULF       M       GAC       0750       70-2191-1       GUX       5000.0       00/04       A       10       07M 1XX         LUMINUR       2024       SULF       M       GAC       0750       70-2191-1       GUX       5000.0       00/04       A       10       07M 1XX         LUMINUR       2024-1351       GAC       0750       70-2191-1       GUX       5000.0       00/04       A       10       07M 1XX         LUMINUR       356-16       V       H       AIRCRAFT       CASTINGS       0750       70-2191-1       GUX       5000.0       00/04       A       10       07M 1XX         LUMINUR       356-16       V       H       AIRCRAFT       CASTINGS       070-2190       00/04       A       10       10       10       10       10       10       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LUMINUM       2024       SULF       AN       GAC       -0750       70-2157-2       GOX       5000.0         LUMINUM       2024       SULF       AN       GAC       70-2157-2       GOX       5000.0         LUMINUM       2024       SULF       AN       GAC       -0750       70-2157-2       GOX       5000.0         LUMINUM       2024       T351       GAC       -0750       70-2191       GOX       1500.0         LUMINUM       2024-T351       GAC       -0750       70-2191       GOX       1500.0         LUMINUM       2024-T351       GAC       -0750       70-2191       GOX       1500.0         LUMINUM       2024-T351       GAC       -70       70-2195       GOX       1500.0         LUMINUM       356-T6       V + W       AIRCRAFT       CASTINGS       -0750       70-2135       GOX       1500.0         LUMINUM       356-T6       V + W       AIRCRAFT       CASTINGS       -0750       70-2135       GOX       1500.0         LUMINUM       356-T6       V + W       AIRCRAFT       CASTINGS       -0750       70-2132       GOX       1500.0         LUMINUM       6061       GAC       V + W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GAC           |           |          |         | 71-2396-1            | A-50       | 785.0    | 510         | •      |        |        |         |          |            | DIM                      |
| LUMINUN 2024 SUF AN GAC       TO-2157-1       GIX 5000.0       00/04       A       IO       ITMAXX         LUMINUN 2024 SUF AN GAC       00/04       A       IO       01/04       A       IO       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LUMINUM 2024 SULF AN GAC       T0-2157-1       GDX 5000.0         LUMINUM 2024-T351       GAC       -0750       70-2157-2       GDX 5800.0         LUMINUM 2024-T351       GAC       -0750       70-2157-2       GDX 5800.0         LUMINUM 2024-T351       GAC       -0750       70-2191-1       GDX 1500.0         LUMINUM 2024-T351       GAC       -0750       70-2191-1       GDX 1500.0         LUMINUM 356-T6       V + W AIRCRAFT CASTINGS       -0750       70-2132-1       GDX 1500.0         LUMINUM 356-T6       V + W AIRCRAFT CASTINGS       -0750       70-2132-1       GDX 1500.0         LUMINUM 356-T6       V + W AIRCRAFT CASTINGS       -0750       70-2132-1       GDX 1500.0         LUMINUM 6061       GAC       V + W AIRCRAFT CASTINGS       -0750       71-2332-1       A-50       780.0         LUMINUM 6061       GAC       V + W AIRCRAFT CASTINGS       -0750       71-2332-1       A-50       780.0         LUMINUM 6061       GAC       V + W AIRCRAFT CASTINGS       -0750       71-2332-1       A-50       780.0         LUMINUM 6061       GAC       V + W AIRCRAFT CASTINGS       -0750       71-2332-1       A-50       780.0         LUMINUM 6061       GAC       T1-2332       A-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N GAC         | •         |          | •0750   | 70-2157              | CO X       | 5000.0   |             | 50     | 00/04  |        |         |          | A 11       | DIM                      |
| LUMINUR 2024 SUF AN GAC       70-2157-2       GUX 6800.0       00/04       A       10       0741xxx         LUMINUR 2024 SUF AN GAC       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .0750       .00764       .01       .010       .010       .010       .010       .010       .010       .010       .010       .010       .010       .010       .010       .010       .010       .010       .010       .010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LUMINUR 2024 SULF AN GAC       70-2157-2       GDX 6800.0         LUMINUR 2024-T351       GAC       0750       70-2191       GUX 1500.0         LUMINUR 2024-T351       GAC       0750       70-2191       GUX 1500.0         LUMINUR 2024-T351       GAC       0750       70-2191       GUX 1500.0         LUMINUR 356-T6       V + W AIRCRAFT CASTINGS       0750       70-2135       GUX 1500.0         LUMINUR 356-T6       V + W AIRCRAFT CASTINGS       0750       70-2132       GUX 1500.0         LUMINUR 356-T6       V + W AIRCRAFT CASTINGS       0750       70-2132       GUX 1500.0         LUMINUR 6061       GAC       V + W AIRCRAFT CASTINGS       0750       70-2202       GUX 1500.0         LUMINUR 6061       GAC       V + W AIRCRAFT CASTINGS       0750       71-2332       A-50       780.0         LUMINUR 6061       GAC       T1-2332       A-50       781.0       71-2333       A-50       789.0         LUMINUR 6061       GAC       T1-2333       A-50       71-2333       A-50       789.0         LUMINUM 6051       GAC       T1-2333       A-50       789.0       789.0       789.0         LUMINUM 6051       GAC       T1-2333       A-50       789.0       7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | N GAC         |           |          |         | 70-2157-1            | COX<br>COX | 5000.0   |             |        | 00/04  |        |         |          | A 10       | 014                      |
| LUMINUR       2024-1331       64C       0750       70-2191       60X       1500.0       00/04       A       10       10.44xx         LUMINUR       356-T6       V       V       M       A       10       FMAXX       A       10       FMAXX         LUMINUR       356-T6       V       V       W       A       10       FMAXX       A       10       FMAXX         LUMINUR       356-T6       V       V       W       A       00/04       A       10       FMAXX         LUMINUR       356-T6       V       W       A       00/04       A       10       FMAXX         LUMINUR       356-T6       V       W       A       00/04       A       10       FMAXX         LUMINUR       6061       600       00/04       A       10       FMAXX       7       15       FMAXX         LUMINUR       6061       600       00/04       A       A       00/04       A       15       FMAXX         LUMINUR       6061       600       600       600       600       600       7       15       FMAXX         LUMINUR       6061       6061       600       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LUMINUR 2024-1331 GAC -0750 70-2191 GUX 1500.0<br>LUMINUR 356-T6 V + W AIRCRAFT CASTINGS -0750 70-2191-1 GUX 1500.0<br>LUMINUR 356-T6 V + W AIRCRAFT CASTINGS -0750 70-2192 GUX 1500.0<br>LUMINUR 356-T6 V + W AIRCRAFT CASTINGS -0750 70-2192 GUX 1500.0<br>LUMINUR 356-T6 V + W AIRCRAFT CASTINGS -0750 70-2192 GUX 1500.0<br>LUMINUR 6061 GAC 71-2332 A-50 781.0<br>LUMINUR 6061 GAC 71-2332 A-50 781.0<br>LUMINUR 6061 GAC 71-2333 A-50 789.0<br>LUMINUR 6061 GAC 71-2333 A-50 789.0<br>LUMINUR 6061 GAC 71-2333 A-50 789.0<br>LUMINUR 6061 FAC 700 71-2333 A-50 789.0<br>LUMINUR 6061 ALODINE GAC 70-2149 GUX 2000.0<br>LUMINUM 6061 + ALODINE GAC 70-21491 GUX 2000.0<br>LUMINUM 6061 + ALODINE GAC 70-21491 GUX 2000.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | N GAC         |           |          |         | 70-2157-2            | 20X        | 6800.0   |             |        | \$0/00 |        |         |          | A 10       | とてい                      |
| LUMINUM     Social Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LUMINNI 356 ALODINE FINGAC       -0750       70-2191-1       CUX       1500.0         LUMINNI 356 ALODINE FINGAC       V + W       AIRCRAFT CASTINGS       -0750       70-2191-1       CUX       1500.0         LUMINUN 356-T6       V + W       AIRCRAFT CASTINGS       -0750       70-2135       GUX       1500.0         LUMINUN 356-T6       V + W       AIRCRAFT CASTINGS       -0750       70-2135       GUX       1570.0         LUMINUN 356-T6       V + W       AIRCRAFT CASTINGS       -0750       70-2202-1       GUX       1570.0         LUMINUN 6061       GAC       V + W       AIRCRAFT CASTINGS       -0750       71-2332       A-50       781.0         LUMINUN 6061       GAC       T1-2332       A-50       789.0       71-2333       A-50       789.0         LUMINUN 6061       GAC       T1-2333       A-50       71-2335       A-50       789.0         LUMINUN 6061       GAC       T1-2335       A-50       71-2335       A-50       789.0         LUMINUN 6061       GAC       T1-2335       A-50       710.2       789.0       789.0         LUMINUN 6061       GAC       T1-2335       A-50       780.0       789.0       789.0         LUMINUN 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 540           |           |          | •0150   | 1012-01              | COX        | 1500.0   |             |        | 00/04  |        |         |          | A 10       | 014                      |
| LUMINUM       356-76       V + W       AIRCRAFT       CASTINGS       -0750       70-2202       GAX       10       01/04       A       15       01/04       A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LUMINUM       356-T6       V + W       AIRCRAFT       CASTINGS       0750       70-2202       G0X       5000.0         LUMINUM       356-T6       V + W       AIRCRAFT       CASTINGS       0750       70-2202       G0X       5000.0         LUMINUM       6061       GAC       V + W       AIRCRAFT       CASTINGS       0750       70-2202       G0X       5000.0         LUMINUM       6061       GAC       V + W       AIRCRAFT       CASTINGS       0750       70-2202       G0X       500.0         LUMINUM       6061       GAC       V + W       AIRCRAFT       CASTINGS       0750       70-2202       G0X       500.0         LUMINUM       6061       GAC       T1-2332       A-50       789.0       71-2333       A-50       789.0         LUMINUM       6061       GAC       T1-2333       A-50       789.0       71-2335       A-50       789.0         LUMINUM       6061       GAC       T1-2335       A-50       789.0       71-2335       A-50       710.0         LUMINUM       6061       ALODINE       GAC       T1-2335       A-50       710.0         LUMINUM       6061       ALODINE       GAC       7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | JNC AC        |           |          | 04/0.   | 1-1612-01            | x o y      | 1500.0   |             | 04     | 00/04  |        |         |          | 4          | 10                       |
| LUMINUN       356-T6       V + W       AIRCRAFT       CASTINGS       0750       70-2202-1       GOX       500       00       04       11       DTMAXX         LUMINUN       5661       CAC       T1-2332       A-50       781.0       49       50       00/04       T       15       DTMAXX         LUMINUN       6061       GAC       T1-2332       A-50       781.0       499       T       15       DTMAXX         T1-2332       A-50       781.0       499       71.2       232.1       A-50       781.0       499       T       15       DTMAXX         LUMINUN       6061       GAC       T1-2333-1       A-50       783.0       508       T       15       DTMAXX         LUMINUN       6061       GAC       T1-2333-1       A-50       701.0       487       T       15       DTMAXX         LUMINUN       6061       ALODINE       GAC       T1-2335-1       A-50       701.0       487       T       15       DTMAXX         LUMINUN       6061       ALODINE       GAC       T1-2335-1       A-50       701.0       480       701.0       480       70.0       70.0       70.0       70.0       7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LUMIWN       356-T6       V + W AIRCRAFT CASTINGS       0750       70-2202-1       60X       1500.0         LUMINUM       6061       GAC       FALCRAFT CASTINGS       0750       71-2332       A-50       781.0         LUMINUM       6061       GAC       FALCRAFT CASTINGS       0750       71-2332       A-50       781.0         LUMINUM       6061       GAC       FALCRAFT CASTINGS       0750       71-2332       A-50       781.0         LUMINUM       6061       GAC       FALCRAFT       71-2333       A-50       789.0         LUMINUM       6061       GAC       71-2335       A-50       789.0       711-2335       A-50       789.0         LUMINUM       6061       GAC       71-2335       A-50       789.0       711-2335       A-50       789.0         LUMINUM       6061       GAC       71-2335       A-50       789.0       711-2335       A-50       789.0         LUMINUM       6061       GAC       71-2335       A-50       789.0       700.0       711.0         LUMINUM       6061       ALODINE       GAC       71-2335       A-50       700.0       700.2         LUMINUM       6061       ALODINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V + V Alf     | RCRAFT    | CASTINGS | 0150    | 70-2202              |            | 1500.0   |             |        | 40/00  |        |         |          |            |                          |
| LUMINUM 6061       GAC       71-2332       A-50       781.0       499       7115       7144X         LUMINUM 6061       GAC       71-2332       A-50       763.0       499       715       715       715       714         LUMINUM 6061       GAC       71-2332       A-50       763.0       499       715       715       716       715       714       715       714       715       714       715       714       715       714       715       714       715       714       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716       716 <th>LUMINUM 6061       GAC       71-2332       4-50       781.0         LUMINUM 6061       GAC       71-2332       4-50       781.0         LUMINUM 6061       GAC       71-2333       A-50       781.0         LUMINUM 6061       GAC       71-2333       A-50       781.0         LUMINUM 6061       GAC       71-2333       A-50       766.0         LUMINUM 6061       GAC       71-2333       A-50       766.0         LUMINUM 6061       GAC       71-2333       A-50       766.0         LUMINUM 6061       GAC       71-2333       A-50       760.0         LUMINUM 6061       GAC       71-2335       A-50       760.0         LUMINUM 6061       GAC       71-2335       A-50       760.0         LUMINUM 6061       GAC       71-2335       A-50       760.0         LUMINUM 6051       A10DINE GAC       71-2335       A-50       701.0         LUMINUM 6051       A10DINE GAC       70-2149       GOX       2000.0         LUMINUM 6051       AMOINE GAC       70-2167       GUX       2000.0</th> <th>V + 4 A16</th> <th>2 CE AF T</th> <th>VONITOR</th> <th>0750</th> <th>70-2202-1</th> <th>202</th> <th></th> <th></th> <th>2</th> <th>10.00</th> <th></th> <th></th> <th></th> <th></th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LUMINUM 6061       GAC       71-2332       4-50       781.0         LUMINUM 6061       GAC       71-2332       4-50       781.0         LUMINUM 6061       GAC       71-2333       A-50       781.0         LUMINUM 6061       GAC       71-2333       A-50       781.0         LUMINUM 6061       GAC       71-2333       A-50       766.0         LUMINUM 6061       GAC       71-2333       A-50       766.0         LUMINUM 6061       GAC       71-2333       A-50       766.0         LUMINUM 6061       GAC       71-2333       A-50       760.0         LUMINUM 6061       GAC       71-2335       A-50       760.0         LUMINUM 6061       GAC       71-2335       A-50       760.0         LUMINUM 6061       GAC       71-2335       A-50       760.0         LUMINUM 6051       A10DINE GAC       71-2335       A-50       701.0         LUMINUM 6051       A10DINE GAC       70-2149       GOX       2000.0         LUMINUM 6051       AMOINE GAC       70-2167       GUX       2000.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V + 4 A16     | 2 CE AF T | VONITOR  | 0750    | 70-2202-1            | 202        |          |             | 2      | 10.00  |        |         |          |            |                          |
| LLMINM       6061       6ac       71-2332-1       A-50       905.0       49       715       01MAXX         LUMINM       6061       6ac       71-2333       A-50       803.0       508       715       01MAXX         LUMINM       6061       6ac       71-2333       A-50       803.0       508       715       01MAXX         LUMINM       6061       6ac       71-2333       A-50       789.0       504       715       01MAXX         LUMINM       6061       6ac       71-2335       A-50       709.0       504       715       01MAXX         LUMINM       6061       6ac       71-2335-1       A-50       709.0       604       715       01MAXX         LUMINM       6061       ALODINE       6ac       71-2335-1       A-50       701.0       48       71-7335-1       701.0       48       701.0       48       701.0       48       700.00       701.0       48       700.00       701.0       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00       700.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LLMINN         6061         6ac         71-2332-1         4-50         805.0           LUMINN         6061         6ac         71-2333         A-50         705.0           LUMINUM         6061         6ac         71-2333         A-50         766.0           LUMINUM         6061         6ac         71-2333         A-50         766.0           LUMINUM         6061         6ac         71-2335         A-50         766.0           LUMINUM         6061         6ac         71-2335         A-50         766.0           LUMINUM         6061         6ac         71-2335         A-50         766.0           LUMINUM         6061         41001         71-2335         A-50         766.0           LUMINUM         6061         41001         71-2335         A-50         766.0           LUMINUM         6061         41001         70-2149         702.200.0           LUMINUM         6061         41001         70-2149         60X         2500.0           LUMINUM         6061         41001         70-2147         60X         2700.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GAC " "       |           |          |         | 71-2332              | A-50       | 781.0    | 067         | 200    | +      |        |         |          | 4 1        |                          |
| LUMINIM         6061         6ac         71-2333         A-50         803.0         508         71         5 DTMAXX           LUMINUM         6061         6ac         71-2333         A-50         766.0         487         7         15 DTMAXX           LUMINUM         6061         6ac         71-2335         A-50         789.0         504         7         15 DTMAXX           LUMINUM         6061         6ac         71-2335         A-50         789.0         504         7         15 DTMAXX           LUMINUM         6061         6ac         71-2335         A-50         701.0         486         00/04         A         10 DTMAXX           LUMINUM         6061         410DINE         6ac         70-2149-1         60X         2000.0         00/04         A         10 DTMAXX           LUMINUM         6061         440DINE         6ac         70-2149-1         60X         200.04         A         10 DTMAXX           LUMINUM         6061         440DINE         6ac         70-2149-1         60X         70-2149-1         70-2149-1         70-2149-1         70-2149-1         70-2149-1         70-2149-1         70-2149-1         70-21491         70-21491         70-21491                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LUMINUM 6061         GAC         71-233         A-50         R03.0           LUMINUM 6061         GAC         71-233         A-50         R03.0           LUMINUM 6061         GAC         71-233         A-50         R03.0           LUMINUM 6061         GAC         71-233         A-50         765.0           LUMINUM 6061         GAC         71-2335         A-50         789.0           LUMINUM 6061         AALODINE GAC         70-2149-1         GOX         2500.0           LUMINUM 6061         AMODINE GAC         70-2167         GUX         2001.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GAC           |           |          |         | 71-2332-1            |            | 0 - 50 a | 007         |        |        |        |         |          | - +-       |                          |
| LUMINUM 6061         GAC         71-2333-1         A-50         766.0         487         T         T         S DTMAXX           ALUMINUM 6061         GAC         71-2335         A-50         789.0         504         7         15         DTMAXX           ALUMINUM 6061         GAC         71-2335         A-50         789.0         504         7         15         DTMAXX           ALUMINUM 6061         GAC         71-2335-1         A-50         701.0         486         00/04         10         DTMAXX           ALUMINUM 6061         GAC         71-2335-1         A-50         701.0         486         00/04         4         10         DTMAXX           ALUMINUM 6061         GAC         70-2149-1         GOX         2000.0         00/04         4         10         DTMAXX           ALUMINUM 6061         GAC         70-2149-1         GOX         70-2149-1         GOX         60/04         4         10         DTMAXX           ALUMINUM 6061         GAC         70-2149-1         GOX         70-2149-1         GOX         60/04         4         10         DTMAXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LUMINUM 6061 GAC 71-233-1 4-50 765.0<br>LUMINUM 6061 GAC 71-2335 4-50 789.0<br>LUMINUM 6061 GAC 71-2335 4-50 789.0<br>LUMINUM 6061 + ALODINE GAC 70-2149 GOX 2000.0<br>LUMINUM 6061 + ALODINE GAC 70-2149-1 GOX 2000.0<br>LUMINUM 6061 + ALODINE GAC 70-2147 GUX 2000.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GAC           |           |          |         | 1 2003 11            |            | AD3.0    |             |        |        |        |         |          |            |                          |
| LUMINUM 6061     GaC     71-2335     A-50     789.0     504     T     15     DTMAXX       LUMINUM 6061     GaC     71-2335-1     A-50     701.0     486     00/04     7     15     DTMAXX       LUMINUM 6061     4001NE     GaC     70-2149-1     G0X     2000.0     600/04     4     10/14/4X       LUMINUM 6061     4.001NE     GaC     70-2149-1     G0X     2000.0     60/04     4     10/14/4X       LUMINUM 6061     A.001NE     GaC     70-2149-1     G0X     2000.0     60/04     4     10/14/4X       LUMINUM 6061     A.001NE     GaC     70-2149-1     G0X     2000.0     60/04     4     10/14/4X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | LUMINUM 6061         GAC         71-2335         4-50         789.0           ALUMINUM 6061         6AC         71-2335-1         4-50         701.0           ALUMINUM 6061         6AC         71-2335-1         4-50         701.0           ALMINUM 6061         4 ALDDINE 6AC         70-2149         60X         2000.0           ALIMINUM 6051         4 ALDDINE 6AC         70-2149         60X         2500.0           ALIMINUM 6051         AMDDIZFD         6AC         701.0         70-2167         60X         2700.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GAC           |           |          |         | 71-2333-1            | A-50       | 766.0    | 48.7        |        |        |        |         |          |            |                          |
| LUMINUM 6661         Gac         71-2335-1         A-50         701.0         486         715         714335-1           LUMINUM 6061         ALODINE GAC         70-2149         60X         2000.0         60X         2000.4         A         10         704XXX           LUMINUM 6061         ALODINE GAC         70-2149-1         60X         2000.0         60X         700.04         A         10         704XXX           LUMINUM 6051         ALODINE GAC         70-2149-1         60X         2000.0         60X         700.04         A         10         704XXX           LUMINUM 6051         ALODINE GAC         70-2149-1         60X         2000.0         60X         700.04         A         10         700.04         A         A         700.04         A         A         700.04         A         10         700.04         A         700.04         A         700.04         A         700.04         A         700.04         A         700.04         A         700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ALUMINUM 6661         6AC         71-2335-1         A-50         701.0           ALIMINUM 6061         ALODINE 6AC         702-2149         60X         2000.0           ALIMINUM 6061         ALODINE 6AC         701.0         70-2149         60X         2000.0           ALIMINUM 6061         ALODINE 6AC         700.2149-1         60X         2500.0         0           ALIMINUM 6061         ANDIZED 6AC         701.6         70-2167         60X         2000.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GAC           |           |          |         | 71-2335              | A-50       | 789.0    | 504         |        |        |        |         |          |            | H C                      |
| LUMING 5061 + ALODINE GAC 70-2149 50X 2000.0 00/04 A 10 DTMAXX<br>ALIMING 6061 + ALODINE GAC 70-2149-1 50X 2500.0 50 00/04 A 11 DTMAXX<br>11.1011 ALONINE 6AC 70-2149-1 50X 2000 0 00/04 A 11 DTMAXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | GAC           |           |          |         | 71-2335-1            | A-50       | 701.0    | 486         |        |        |        |         |          | 1          | 1<br>1<br>0              |
| NUMPINU POST + ALUDINE GAL 2012 11 DIVAXX 2012 50 00704 5 11 DIVAXX 2012 514 2012 51 00704 5 11 DIVAXX 2012 514 2012 514 515 2012 515 515 515 515 515 515 515 515 515 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NUM 6061 * ALUDINE GAC 70-2167 60X 2000.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | INE GAC       |           |          |         | 70-2149              | X09        | 2000.0   |             | 6      | 40/00  |        |         |          | A 10       | 10                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LINE GAL      |           |          |         | 1-6412-01            | ğ          | 2500.0   |             | 50     | 00/04  |        |         |          | 4          |              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00 - K 40 CIMMEN'S x > 9 W TMEXX NMMC X X 0000 DTHAXX I MAXX X X 7 M J XXJW ベメトントリ FMAX TMAX TMAXX TMAXA 4CNX+ ;;; BBGXX "HAX" **TNAX** (XAM' 1 とくろ 2.5 MATL CODE P 46.E 0 α. NO UF FLASH FIPE PROP MT REACT POINT PT DIST LUSS 513 80R 640 570 e S S S S 412 31 JAN 72 00707 40/00 10/04 40/00 00/04 40/00 40/00 00/04 00/04 01/01 00/04 00/00 00/04 00/00 +0/00 207,00 70/00 20/04 I MP T Enfr MATERIAL TEST DATA BY MANUFACTURER S DESIGNATION AS OF 20 29 50 50 20 50 33 50 TEMP 504 495 495 495 496 498 520 497 503 5103 497 497 2000.0 4500.0 5000.0 745.0 745.0 760.0 760.0 4500.0 25500.0 1500.0 1500.0 797.0 747.0 682.0 1500.0 1500.0 5000.0 5000.0 3700.0 8500.0 6800.0 25000.0 25000.0 25000.0 25000.0 1500.0 11500.0 11500.0 11500.0 759.0 744.0 756.0 805.0 50.0 765.0 767.0 1500.0 6.2 81.0 797.0 TEST TEST ENVR PRESS 783.0 × × × × Š × × × × × HXC Ţ TEST RPT NO. 70-2155 70-2239 70-2239-1 71-2402 71-2402-1 71-2399-1 71-2399-1 10-2234-1 11-2293-1 11-2293-1 71-2293-2 71-2293-3 71-2293-3 71-2555 71-2555-1 71-2590 71-2590-1 70-2153-5 70-2153-6 70-2153-6 70-2156 170-2156 70-2062-1 70-2062-1 71-2397-1 71-2397-1 1-2297 1-2290 1-2295 1-2295 1-2295 1-2298-1 0-2218-1 1-2367-2 1-2367-2 1-2367-2 1-2296-1 70-2152 70-2153 70-2153-1 55 .0750 •0150 SPEC. 500 500 500 I. DUPONT CO..INC I. DUPONT CO..INC S. DUPONT CO..INC 0 00 HARVEY ALUMINUM HARVEY ALUMINUM Gac Gac LOYS. 101 TALS REYNOLDS ALIM Reynolds Alum Advanced Alidy 2 CEC ALLOY ARMSTRONG MONSANTO CGRP MONSANTO CGRP ACONDA WIRE MANUFACTURER AM IL TON STI AMIL TON STI MACONDA MIF I. DUPONT •1. DUPONT IS NO in in NDVANCED A ARMS TRONG **ADVAN** PACIF 5AC 5AC 1730-27A SVSK 81370-124 SVSK 81370-29A SVSK 81370-29A SVSK 81370-164 SVSK 81370-164 SVSK 81370-16 SVSK 81370-14 SVSK 81370-14 \*\*\*\*\*\*\* ₹ NTED WIRE 651 651 HARD HARD 4480 S DESIGNATION 7075-7 65 7075-7 65 7075-1 65 Ĩ # COATED 1909 6061 80° -5616 -3651 Ň -0.1 K ž HFGA Ĩ Ĩ 굴굵

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MATERIAL TEST DATA BY MANUFACTURER S DESIC" TION AS OF 31 JAN 72

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|                           | M 410 IC AT 71 40 E 0    | 2962     | TECT ODT NO | TCCT | TECT    | TCCT  | 1 40 1 | 90 ON | 01464 | 0 100 0 | 0000  |     |          | 2                     | ŗ           |
|---------------------------|--------------------------|----------|-------------|------|---------|-------|--------|-------|-------|---------|-------|-----|----------|-----------------------|-------------|
|                           |                          | THICK.   |             | ENVR | PRESS   | TEMP  | ENER   | REACT | PUINT |         | IST L | 055 | <br>K    | 10                    | - B         |
| ARTICLOR 1242             | MON SANTO CORP           |          | 71-2590-2   | ×09  | 50.0    |       |        |       | 640   | 640     |       |     | 0        | 300                   | EKAD        |
| ASTN 3260 BAUM            | GAC                      | .0750    | 70-2126     | XOS  | 2000-0  |       |        | 00/04 |       |         |       |     | A        | 1 E                   | IMMM        |
| A2-61A MUNESIUM           |                          | .0750    | 10-82       | Ň    | 500.0   |       |        | 40/00 |       |         |       |     | 4        | 0                     | XXUM        |
| VISING ANT MALE ADVEST    | EMYSOL CORP              |          | 71-2328     | COX  | 6800.0  |       |        | 01/01 |       |         |       |     |          | 0 AB                  | BGXX        |
| AP-11-28-0496 ADRESTV     | REHYSOL CORP             |          | 71-2328-1   | ŝ    | 6800.0  |       | 50     | 00/C4 |       |         |       |     | A 1      | 1 AB                  | BGXX        |
| VICTOR ALLENDER ADDRES IV | TENVSOL CORP             |          | 71-2328-2   | ×09  | 3000.0  |       |        |       | 256   | 256     |       |     | 0        | 3 AB                  | XXUB        |
| B 1112 STEEL/SN PLATE     | GAC                      |          | 71-2708     | A-50 | 675.0   | 493   |        |       |       |         |       |     | -        | 2 M                   | MOM         |
| B 1112 STEEL/SH PLATE     | GAC                      |          | 71-2708-1   | A-50 | 771.0   | 515   |        |       |       |         |       |     | · ••     |                       | NUN         |
| 2-318-7                   | PARKER SFAL/LOS ANGLS    |          | 10-1971     | A-50 | 334.0   | 430   |        |       |       |         |       |     |          | 20.0                  | XXX         |
| 8-316-7                   | PARKER SEAL/LOS ANGLS    |          | 70-1971-1   | A-50 | 397.0   | 51.5  |        |       |       |         |       |     | ·        | 2<br>2<br>2<br>2<br>2 | ~ 7 X X     |
|                           | PARKER SCAL/LOS ANGLS    |          | 70-1971-2   | A-50 | 571.0   | 46.3  |        |       |       |         |       |     |          |                       | C 7 X X     |
|                           | PARKER SEAL/LOS ANGLS    |          | 70-1971-3   | A-50 | 526.0   | 453   |        |       |       |         |       |     |          |                       | C Z X X     |
| BC-340                    | GAC                      |          | 71-2513     | A-50 | 771.0   | \$0.5 |        |       |       |         |       |     |          | 33                    | ****        |
| BC-340                    | GAC                      |          | 71-2513-1   | A-50 | 816.0   | 513   |        |       |       |         |       |     | <br>     | la<br>ve              | ****        |
| BERVICO 25 CA-172         | BERYLCO                  | .0750    | 70-2140     | 60X  | 2000-0  |       | 50     | 00/04 |       |         |       |     | - 4      |                       | いたい         |
| BERVLLIUM CH. 00-C-530    | BERYLCO                  | .0750    | 70-2211     | COX  | 1500-0  |       |        | 00/04 |       |         |       |     |          |                       | UNA N       |
| BEAVLIN CH.00-C-530       | BERYLCO                  |          | 70-2211-1   | Š    | 1500.0  |       | 50     | 00/07 |       |         |       |     | A        | NO                    | MYMC        |
| BERVLLIUN CH-00-C-530     | BERYLCO                  |          | 70-2211-2   | A-50 | 779.0   | 498   |        |       |       |         |       |     | -        | 2012                  | MYMC        |
| BERVLIUM CH.00-C-530      | BERYLCO                  |          | 70-2211-3   | A-50 | 756.0   | 501   |        |       |       |         |       |     |          |                       | UM Y MC     |
| BOEING 101 BEARING MATL   | BOEING CO                |          | 70-1982     | 60 X | 1500.0  |       | 50     | 00/04 |       |         |       |     | <b>A</b> | HAI                   | CHAN        |
| BUEING 101 BEARING KATL   | . BOEING CO              |          | 70-1982     | ŝ    | 1500.0  |       |        | 00/04 |       |         |       |     | 4        | HAO                   | DAND        |
| BOEING 101 BEARING MATL   | . BOEING CO.             |          | 70-1982-1   | COX  | 1500.0  |       |        |       | 666N  | 066N    |       |     | A        | HA E                  | <b>UMWM</b> |
| BBROMASTER NTT3           | PITTSBURGH PLATE GLASS   |          | 71-2481     | A-50 | 637.0   | 475   |        |       |       |         |       |     | 1        | 5 AB                  | BGGS        |
| BUNDWASTER H773           | PITISBURGH PLATE GLASS   |          | 71-2481-1   | A-50 | 770.0   | 504   |        |       |       |         |       |     | -        | 5 AB                  | BGGS        |
| BURE MARD LASIER          | DARLING-R-E. CD. INC     | •0750    | 70-1644     | ŝ    | 5000.0  |       | 50     | 00/07 |       |         |       |     | ۲<br>۲   | E E                   | CUXX<br>0   |
| DOME HAND WASHER          | DARLING-R-E. CO. INC     |          | 70-1644-1   | X02  | 5.000.0 |       |        | 10/10 |       |         |       |     | F        | 50                    | CLIX X      |
| BONE MARD WASHER          | DARLING .R.E. COINC      |          | 70-1644-2   | × OS | 5000.0  |       |        | 01/02 |       |         |       |     |          | : I<br>0 0<br>0 0     |             |
| BR 615 ADMESIVE           | N.T. BEAN                |          | 71-2479     | A-50 | 776.0   | 506   |        |       |       |         |       |     | 1        | S AE                  | C S X X     |
| <b>BR 610 ADMESIVE</b>    | W.T. BEAN                |          | 71-2479-1   | A-50 | 769.0   | 495   |        |       |       |         |       |     | F        | 5 AE                  | GSXY        |
| BR-24                     |                          |          | 71-2703     | A-50 | 339.0   | 376   |        |       |       |         |       |     | L<br>L   | 5 0 0                 | CJXX        |
| 5K-24                     |                          |          | 71-2703-1   | A-50 | 772.0   | 450   |        |       |       |         |       |     | ۲<br>۲   | 5 09                  | xxru        |
| BRASS 1/2 HARD            | ANACONDA WIRE + CABLE CO |          | 70-2056     | A-57 | 759.0   | 512   |        |       |       |         |       |     | T 1      | S UR                  | MCH Z       |
| BRASS 1/2 HAND            | AMACONDA WIRE + CABLE CO |          | 70-2056-1   | A-50 | 779.0   | 521   |        |       |       |         |       |     | -        | 5 ON                  | MC M Z      |
|                           | BAAT UIL CU              |          | 4Z4I-69     | 6UX  | 0.0     | 1000  |        |       | 619   | 665N    |       |     | 7        | 3 DB                  | 8PXX        |
| BRAYCOTE 617              | BRAY OIL CO              |          | 69-1424-1   | Š    | 25.0    | 1000  |        |       | 552   | 666N    |       |     | 1        | 3 08                  | BPXX        |
| BRAYCOTE 617              | BRAY DIL CO              | • 00 5 0 | 69-1424-13  | 60X  | 4000.0  |       |        | 10/10 |       |         |       |     | T<br>T   | 000                   | BPXX        |
| BRAYCOTE 617              | BRAY DIL CO              | •0050    | 69-1424-11  | õ    | 4500.0  |       |        | 10/00 |       |         |       |     | A 1      | 0 08                  | BPYX        |
| BRAYCOTE 617              | BRAY DIL CO              | • 00500  | 69-1424-12  | 60X  | 5000.0  |       |        | 04/04 |       |         |       |     | 1        | 000                   | BVXX        |
| BRAYCOTE 417              | BRAY GIL CO              | •0150    | 69-1424-13  | Š    | 2000.0  |       | 200    | 40/00 |       |         |       |     | 4        | 1 00                  | 8P X X      |
| BRAYCOTE 417              | BRAY OIL CO              |          | 69-1424-14  | 60X  | 6.2     | 1 200 |        |       | 60 UN | 606N    |       |     | ר<br>ר   | 3 58                  | BPXX        |
| BRAYCOTE 617              | BRAY DIL CO              |          | 69-1424-15  | Š    | 16.5    | 1000  |        |       | 666N  | 666 N   |       |     | -<br>-   | 3 DB                  | BPXX        |
| BRAYCOTE 617              | BRAY DIL CO              |          | 69-1424-2   | 20X  | 50.0    | 1000  |        |       | 619   | 660N    |       |     | ~'<br>≻  | 3 DB                  | 8PXX        |
| BRAYLOTE 617              | BRAY OIL CO              |          | 69-1424-3   | õ    | 50.0    | 1000  |        |       | 066N  | 006N    |       |     | ۲<br>۲   | 3 08                  | RPXX        |
| BRAYCOTE 617              | BRAV DIL CO              |          | 69-1424-4   | X OS | 100.0   |       |        |       | 514   | 516     |       |     | ĉ        | 3 DB                  | BPXX        |

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|----------------------|-----------------------|-----------------------|--------|-----------|--------------------|---------|------|------|---------|--------------------|----------|------------|-----------------------|-----------|
| Ì                    | 101 0 101 C 101 C 101 |                       | THICK. |           | ENVR               | PRESS   |      | NFR  | FACT PC | Id INI             |          | <br>r      | 12                    | - 0       |
| ¥.                   | AVCOTE 617            | BRAY DIL CO           |        | 69-1424-5 | COX                | 500.0   |      |      | 7       | ר ג<br>ג           | 5 H      | 1          | 3 DBI                 | BPXX      |
| N.C.                 | AVCOTE 617            | BRAY DIL CO           |        | 69-1424-6 | COX                | 1000.0  |      |      | 4       | 51 45              | -        | ۳<br>د     | 3 086                 | RPXX      |
| 18                   | IANCOTE 617           | BRAY DIL CO           |        | 69-1424-7 | ×09                | 1500.0  |      |      | ч       | 17 41              | -        | <br>C      | 3 0.86                | XXaB      |
| 14<br>14<br>14<br>14 | IANCOTE 617           | BRAY DIL CO           |        | 69-1424-8 | 60 X               | 2000.0  |      |      | 4       | 04 40              | 54       | <b>г</b>   | 3 086                 | RPXY      |
| 5                    | LANCOTE 617           | BRAY OIL CO           | •0050  | 69-1424-9 | x03                | 3500.0  |      | ç    | 0/04    |                    |          | 4          | 0 DBI                 | BPXX      |
|                      | LAVCOTE 631A          | BRAY DIL CO           |        | 70-1746   | GOX                | 25.0    | 1001 |      | 6 Z     | 56N 66             | 0        | 1 7        | 3 DA(                 | BPEF      |
| ő                    | RAYCOTE AJIA          | BRAY DIL CO           |        | 70-1746-1 | š                  | 50.0    | 1000 |      | 5W      | 06N 56             | 20       | -          | 3 DAE                 | BPEF      |
| 19                   | LAVEDTE 631A          | BRAY DIL CO .         |        | 70-1746-2 | 60X                | 62.0    | 1000 |      | 6 Z     | 60 06              | 50       | <b>1</b>   | 3 DAE                 | BPEF      |
| 19                   | IAVCOTE 631A          | BRAY DIL CG           |        | 70-1746-3 | Š                  | 165.0   | 1000 |      | 52      | 06N 66             | ce       | 1 7        | 3 DAf                 | BPEF      |
| 18                   | LANCOTE 631A          | BRAY DIL CO           |        | 70-1746-4 | 60X                | 100.0   |      |      | œ       | 27 A2              | 2        | 0<br>1     | 3 DAE                 | BPEF      |
| 40                   | LANCOTE 631A          | BRAY DIL CO           |        | 70-1746-5 | 60 X               | 500.0   |      |      | -       | 04 UQ.             | UC<br>DC | 2          | 3 UAI                 | BPEF      |
|                      | LAYCOTE 631A          | BRAY DIL CO           |        | 70-1746-6 | 60 X               | 1000.0  |      |      | ÷       | вł (, <sup>6</sup> | 5        | c          | 3 DA6                 | BPEF      |
|                      | RAVCOTE 631A          | BRAY DIL CO           |        | 70-1746-7 | õ                  | 1500.0  |      |      | ÷       | 87 65              | 7        | <br>       | 3 DA(                 | R P E F   |
| 5                    | ANCOTE 631A           | BRAY DIL CO           |        | 70-1746-R | čOX                | 2000.0  |      |      | ×       | 73 67              | m        | -<br>c     | 3 DAF                 | чр£ F     |
|                      | LAZE ALLOY AMS-4773   | HANDY AND HARMON      |        | 1991-07   | Š                  | 1500.0  |      | 50   | 0/04    |                    |          | ~          | ב<br>ה                | XXXX      |
|                      | AZE ALLOY ANS-4773    | NANDY AND HARMON.     |        | 70-1981   | Š                  | 1500.0  |      | 0    | 0/04    |                    |          | 4          | ן<br>ה<br>ס           | ××××      |
|                      | LAZE ALLOY ANS-4773   | HANDY AND HARNON      |        | 70-1981-1 | 80X                | 1500.0  | 1000 |      | 6 N     | 00Z 06             | 0        |            | 3 5                   | ****      |
| , a                  | IONZE ANCO MO. 18     | A.M. CASTLE CO.       |        | 70-2199   | COX                | 1500.0  |      | C    | 0/04    |                    |          | بة.<br>م   | QUO O                 | XXXX      |
| Ā                    | IONZE ANCO NO. 18     | A.M. CASTLE CO.       |        | 70-2199-1 | Š                  | 1500.0  |      | 50 0 | 0/04    |                    |          | A 1        | I OHO                 | XXXX      |
| 2                    | HAA N FRICTION NASHER | VICTOR EQUIPMENT CO.  |        | 71-2779-1 | 20X                | 2500.0  |      | c    | 2/04    |                    |          | <b>-</b>   | 0 CH                  | XXPO      |
| ä,                   | MA K FRICTION NASHER  | VICTOR EQUIPMENT CO.  |        | 71-2779-2 | Š                  | 1500.0  |      | 0    | 10/1    |                    |          | 0          | HO O                  | XXCO      |
| <b>1</b>             | MA N FRICTION WASHER  | VICTOR EQUIPMENT CO.  |        | 21-2779-3 | GOX                | 1000.0  |      | 0    | 10/1    |                    |          | 0          | H<br>S<br>O           | xxrq      |
| <b>英</b>             | MAN FRICTION NASHER   | VICTOR EQUIPMENT CO+  |        | 71-2779-4 | õ                  | 500.0   |      | Ç    | 40/0    |                    |          | 4 ]        | 17<br>0               | XXCO      |
| <b>J</b>             | MA N D-RING           | VICTOR EQUIPMENT CO.  |        | 71-2777-1 | <u>50</u> X        | 2500.0  |      | c    | 2/02    |                    |          | 0          | 0 CH                  | XXCO      |
| *                    | REA N O-RING          | VICTOR EQUIPMENT CO.  |        | 71-2777-2 | XCS                | 1000.0  |      | 0    | 1/02    |                    |          | 0          | 0 CH                  | XXCO      |
| #                    | NUA N O-RING          | VICTOR EQUIPMENT CO.  |        | 71-2777-3 | SOX<br>SOX         | 500.0   |      | 0    | 0/07    |                    |          | <b>1 7</b> | 0 CH                  | N.7X      |
| <b>5</b> ,           | MA N D-RING           | VICTOR EQUIPMENT CO.  |        | 71-2784-1 | X OS               | 2500.0  |      | 0    | 2/02    |                    |          | 0          | O CH                  | XXCU      |
|                      |                       | VICTOR EQUIPMENT CO.  |        | 71-2784-2 | 60X                | 2000.0  |      | 0    | 1/01    |                    |          | 10         | o CH                  | XXTO      |
| Ä                    | MIN N D-NING          | VICTOR EQUIPMENT CO.  |        | 71-2784-3 | ×09                | 1500.0  |      |      | . 10/1  |                    |          | 0          | E.                    | xxra      |
| <b>5</b> ,3          | MA N D-RING           | VICTOR EQUIPMENT CD.  |        | 71-2784-4 | X<br>00<br>00      | 1000.0  |      | 0    | 10/1    |                    |          | 0          | E<br>O                | XXCO      |
|                      | MAN N O-AING          | VICTOR EQUIPMENT CO.  |        | 71-2784-5 | ŝ                  | 500.0   |      | 0    | 0/04    |                    |          | 4          | Ξi<br>ο               | XXCO      |
| <b>5</b> ,           |                       |                       |        | 70-1965   | A-50               | 451.0   | 515  |      |         |                    |          | - 1        | 200                   | X X Z D   |
| ñ,                   |                       |                       |        | 70-1955-1 | 0 4 - 4<br>0 4 - 4 | 00000   | 119  |      |         |                    |          |            | ŠŽ                    | × × × × × |
| į                    |                       |                       |        | 70-1946-2 |                    |         |      |      |         |                    |          | - •        |                       |           |
| ō Ā                  |                       |                       |        | 70-1965-4 | A-50               | 0.044   | 404  |      |         |                    |          |            | s<br>s<br>c<br>n<br>r |           |
| Ĩ                    | LIVI.                 |                       |        | 70-1955-5 | INN                | 760-0   | 505  |      |         |                    |          |            | 5 0 2                 | C 2 X X   |
|                      | IT M.                 | Ĩ                     |        | 70-1965-6 | HIN                | 767.0   | 202  |      |         |                    |          | ·          | 2<br>2<br>2<br>2<br>3 | CZXX      |
|                      | JTYL 591-80           | PARKER SEAL/LUS ANGLS |        | 71-2601   | A-50               | 804.0   | 518  |      |         |                    |          | -          | č.<br>T.              | CZXX      |
| ð,                   | ITYL 591-00           | PARKER SEAL/LOS ANGLS |        | 71-2601-1 | A-50               | 773.0   | 516  |      |         |                    |          | 7 7        | 5 CH                  | C 2 X X   |
| ů                    | -1213 STEEL           | HANSLEY               |        | 71-2652   | A-50               | 762.0   | 506  |      |         |                    |          | 1 1        | IMO S                 | XXQM      |
| 4                    | -1213 STEEL           | MANSLEY               |        | 71-2652-1 | A-50               | 771.0   | 507  |      |         |                    |          | 1 1        | S DH                  | XXCH      |
| ţ                    | -147-7 NEOPRENE       | PARKER SEAL/LOS ANGLS | -0750. | 10-48     | 60X                | 1000.0  |      | C    | 0/04    |                    |          | 4 I        | O CH                  | 0B X X    |
|                      | -147-7 REOPRENE       | PARKER SEAL/LUS ANGLS | •0759  | 10-48-1   | 20X                | 1500.0  |      | 0    | 12/03   |                    |          | 10         | E CH                  | DBXX      |

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| Thick         First Terms         Thick         First Terms         Thick         First Terms         Thick         Thic                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | MANUFACTURER          | SPEC.  | TEST RPT NO. | TEST  | TEST    | TEST | TAM | 10 OF | FLASH      | FIRE | PROP | НT   | х<br>Т   | HAT         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------|--------------|-------|---------|------|-----|-------|------------|------|------|------|----------|-------------|
| C-141-1         FC0000         50         00/00         50         00/00           C-141-1         FC0000         50         00/00         01/00         01/00           C-141-1         FC0000         50         00/00         01/00         01/00           C-141-1         FC0000         01/00         01/00         01/00         01/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <br><br>             |                       | THICK. | •            | ENVR  | PRESS   | TEMF | NER | REACT | POINT      | ΡŢ   | 0151 | LOSS | 1        | 000         |
| C-14+17         Reference         Selection                                                                                                                                                                                                                                                                                                                     | C-147-7 NEOPRENE     | PARKER SEAL/LOS ANGLS | .0750  | 10-48-10     | XOS   | 4000-0  |      | 20  | 00/00 |            |      |      |      | Δ.       | L CHDI      |
| C-447-7         Reference         Descination         Distriction         Distriction <thdistrition< th=""> <thdistrition< th=""> <thdist< td=""><td>C-147-7 REOPRENE</td><td>PARKER SEAL/LDS ANGLS</td><td>-0750</td><td>10-48-11</td><td>20X</td><td>4500.0</td><td></td><td>5</td><td>00/00</td><td></td><td></td><td></td><td></td><td></td><td></td></thdist<></thdistrition<></thdistrition<> | C-147-7 REOPRENE     | PARKER SEAL/LDS ANGLS | -0750  | 10-48-11     | 20X   | 4500.0  |      | 5   | 00/00 |            |      |      |      |          |             |
| C-141-7         TYPENE         Farther         Statul (13)         C0750         IC-44-7         C000         C1/03         C1/03 <thc1 03<="" th="">         C1/03         C1/03</thc1>                                                                                                                                                                                                                                                                                                                                                                                                                | C-147-7 MEDPACHE     | PARKER SEAL/LOS ANGLS | .0750  | 10-48-12     | Š     | 5000.0  |      | 50  | 00/00 |            |      |      |      | ( 4      |             |
| C-141-7         RECRET         AMERT         SALUA         OTS         Divide                                                                                                                                                                                                                                                                                                                                                                                                  |                      | PARKER SEAL/LOS ANGLS | .0750  | 10-48-2      | GOX   | 2000-0  |      |     | 20/10 |            |      |      |      | <br>-    | Ē           |
| C-141-7         Constrained         Constrained <thconstrained< th=""> <thconstrained< th=""> <th< td=""><td>C-147-7 NOPRERE</td><td>PARKER SEAL/LOS ANGLS</td><td>.0750</td><td>[0]</td><td>õ</td><td>2500.0</td><td></td><td></td><td>01/02</td><td></td><td></td><td></td><td></td><td>0</td><td></td></th<></thconstrained<></thconstrained<>           | C-147-7 NOPRERE      | PARKER SEAL/LOS ANGLS | .0750  | [0]          | õ     | 2500.0  |      |     | 01/02 |            |      |      |      | 0        |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | C-147-7 MOPHENE      | PARKER SCAL/LOS ANGLS | •0750  | 10-48-6      | 60 X  | 3000.0  |      |     | 50/20 |            |      |      |      |          |             |
| C-19-17         MERR         SEAL/LOS         MERR                                                                                                                                                                                                                                                                                                                                                                                                                | C-147-7 MEDPRENE     | PARKER SEAL/LOS ANGLS | •0750  | 10-48-5      | Š     | 3500.0  |      |     | 01/02 |            |      |      |      | 0        |             |
| C-11-77         Constrained         Constrained <thconstrained< th=""> <thconstrained< th=""> <th< td=""><td></td><td>PARKER SEAL/LOS ANGLS</td><td>•0750</td><td>10-48-6</td><td>GUX</td><td>4000.0</td><td></td><td>-</td><td>21/02</td><td></td><td></td><td></td><td></td><td></td><td></td></th<></thconstrained<></thconstrained<>                    |                      | PARKER SEAL/LOS ANGLS | •0750  | 10-48-6      | GUX   | 4000.0  |      | -   | 21/02 |            |      |      |      |          |             |
| C-11-17         March Schults         Old                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S-147-7 MEDPRENE     | PARKER SEAL/LOS ANGLS | -0750  | 10-48-7      | ŝ     | 4500.0  |      | . – | 4/04  |            |      |      |      | 0        |             |
| C-14777         MCONCRE         MARCIN SIAL/LLIS ANGLS         0.0730         Description         Description <thdescription< th=""> <thdescription< th="">         &lt;</thdescription<></thdescription<>                                                                                                                                                                                                              |                      | PARKER SEAL/LOS AUGLS | .0750  | 10-49-8      | 60 X  | 3000.0  |      | ç   | 00/00 |            |      |      |      | 4        | CHDI        |
| C-777-7         MEDICING         Stat/LUG         MARCIS         Stat/LUG                                                                                                                                                                                                                                                                                                                                                                       | C-147-7 AEOPREKE     | PARKER SEAL/LDS ANGLS | • 0750 | 1-1-40       | Š     | 3500.0  |      | 20  | 00/00 |            |      |      |      | <        | CHD         |
| C-797-7         MEONER                                                                                                                                                                                                                                                                                                                                                                                             | C-557-7 NEOPAENE     | PARKER SEAL/LOS ANGLS | .0750  | 19-54        | 60 X  | 5000-0  |      | 50  | 40/00 |            |      |      |      | <        | CHO         |
| C-991-7         RCORER         MMCRS         SEAL/LOS         MMCLS                                                                                                                                                                                                                                                                                                                                                                                    | C-937-7 NED-REVENE   | PARKER SEAL/LOS ANGLS | •0750  | 10-54-1      | Š     | 1000.0  |      | •   | 20/04 |            |      |      |      | 4        | D CHDI      |
| C-971-7         RCONCE         MAKEN         SEL/LOS         MAKEN<                                                                                                                                                                                                                                                                                                                                                                                             | C-351-7 MEDRICKE     | PARKER SEAL/LOS ANGLS |        | 10-54-10     | 20X   | 3000.0  |      | 50  | 40/00 |            |      |      |      | 4        | CHOI        |
| C-797-7         RECNER         PAREN         SEA/LUS         NGLS         IC-94-12         GCX         4500.0         D1/D1         LC5         LC5 <thlc5< th=""> <thlc5< t<="" td=""><td>C-537-7 REOPRENE</td><td>PARKER SEAL/LOS ANGLS</td><td></td><td>10-54-11</td><td>š</td><td>3000.0</td><td></td><td></td><td>10/10</td><td></td><td></td><td></td><td></td><td>1</td><td>0 CHDI</td></thlc5<></thlc5<>                                                                                                                                                                                                                                                            | C-537-7 REOPRENE     | PARKER SEAL/LOS ANGLS |        | 10-54-11     | š     | 3000.0  |      |     | 10/10 |            |      |      |      | 1        | 0 CHDI      |
| C-791-7         RCONFER         MARCENS         FILLIOS         MARCENS <t< td=""><td>C-557-7 MCOPREME</td><td>PARKER SEAL/LOS ANGLS</td><td></td><td>10-54-12</td><td>SOX</td><td>4500.0</td><td></td><td>50</td><td>40/00</td><td></td><td></td><td></td><td></td><td>&lt;</td><td>L CHO</td></t<>                                                                                                                                            | C-557-7 MCOPREME     | PARKER SEAL/LOS ANGLS |        | 10-54-12     | SOX   | 4500.0  |      | 50  | 40/00 |            |      |      |      | <        | L CHO       |
| C-971-7         REDNER         PARER         SEA/LOS         MGLS         [10-54-15]         GGX         500.0         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471 </td <td>C-557-7 NEOPRENE</td> <td>PARKER SEAL/LOS ANGLS</td> <td></td> <td>10-54-13</td> <td>Š</td> <td>4500.0</td> <td></td> <td></td> <td>10/10</td> <td></td> <td></td> <td></td> <td></td> <td>T I</td> <td>CHJ O</td>                                                                                                                                                                                                                                                                      | C-557-7 NEOPRENE     | PARKER SEAL/LOS ANGLS |        | 10-54-13     | Š     | 4500.0  |      |     | 10/10 |            |      |      |      | T I      | CHJ O       |
| C-971-7         RCDNELE         PARKEN         SEAL/LOS         MGLS         IO-54-15         GOX         500.0         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         375         376         375         376         375         376         375         376         375         376         375         376         375         376         376         376         376         375         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376         376<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C-937-7 NEGPRENE     | PARKER SEAL/LOS ANGLS |        | +1-+5-01     | 60 X  | 1500.0  |      |     |       | 405        | 405  |      |      | 3        | C LOI       |
| C-971-7         REOFFLE         PARKE         SEAL/LOS         MMGLS         10-54-116         GOX         2000.00         371         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         471         4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C-557-7 MEDPRENE     | PARKER SEAL/LOS ANGLS |        | 10-54-15     | ŝ     | 500.0   |      |     |       | 395        | 395  |      |      | 0        | 3 0.01      |
| C-991-7         REGNER         PARKE         SELVIDS         MGLS         10-54-17         GOX         1000-0         396         396         396         10         13         CH0           C-991-7         REGNER         PARKE         SELVIDS         MGLS         10-54-17         GOX         2000-0         101/02         298         209         011         291         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201         201 <td>C-537-7 NEOPRENE</td> <td>PARKER SEAL/LOS ANGLS</td> <td></td> <td>10-54-16</td> <td>60X</td> <td>200.0</td> <td></td> <td></td> <td></td> <td>471</td> <td>471</td> <td></td> <td></td> <td>0</td> <td>CHOI</td>                                                                                                                                                                                                                                                                            | C-537-7 NEOPRENE     | PARKER SEAL/LOS ANGLS |        | 10-54-16     | 60X   | 200.0   |      |     |       | 471        | 471  |      |      | 0        | CHOI        |
| C-957-7         REGRETION MALS         IO-55-18         GOX         2000.0         309         309         309         10         10         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 <td>C-951-7 NEOPREXE</td> <td>PARKER SEAL/LOS ANGLS</td> <td></td> <td>10-54-17</td> <td>Š</td> <td>1000.0</td> <td></td> <td></td> <td></td> <td>398</td> <td>398</td> <td></td> <td></td> <td>0</td> <td>B CHOI</td>                                                                                                                                                                                                                                                                             | C-951-7 NEOPREXE     | PARKER SEAL/LOS ANGLS |        | 10-54-17     | Š     | 1000.0  |      |     |       | 398        | 398  |      |      | 0        | B CHOI      |
| C-937-7         REDARTER         PARKER         SEA//LOS         MGLS         0750         10-54-19         GOX         2000-0         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02         11/02                                                                                                                                                                                                                                                                                                                                                                                                                                | C-557-7 REDPRENE     | PARKER SEAL/LOS ANGLS |        | 10-54-18     | ¥09   | 2000.0  |      |     |       | 8 <u>0</u> | 309  |      |      | 0        | CHO         |
| C-997-7         NEUTRE         PARKER         SELL/LOS         MGLS         0750         ID-543         GOX         1500.00         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02                                                                                                                                                                                                                                                                                                                                                                                                                                   | C-257-7 NEOPRENE     | PARKER SEAL/LOS ANGLS |        | 10-54-19     | Š     | 3000.0  |      |     |       | 29 A       | 298  | •    |      | ר<br>ר   | DHC E       |
| C-937-7         REPORTER         PARKER         SEA1/LOS         00750         10-543         60X         2000:0         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02         01/02                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | PARKER SEAL/LOS ANGLS | • 0750 | 10-54-2      | XOS   | 1500.0  |      | Ī   | 01/03 |            |      |      |      | ۔<br>م   | Ē           |
| C-997-7         MCONCER         PARKER         SEA./LOS         MGLS         -0750         IO-54-4         GOX         2500.0         01/02         D         IO         IO <td>STATEMENT</td> <td>PARKER SEAL/LOS ANGLS</td> <td>•0750</td> <td>10-54-3</td> <td>Š</td> <td>2000.0</td> <td></td> <td>-</td> <td>01/02</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>CHD 0</td>                                                                                                                                                                                                                                                                                                                     | STATEMENT            | PARKER SEAL/LOS ANGLS | •0750  | 10-54-3      | Š     | 2000.0  |      | -   | 01/02 |            |      |      |      | 0        | CHD 0       |
| C-737-7         REOVER         REAL/LOS ANGLS         00700         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         04/04         11         01/02         11         01         01         010         00/04 <td></td> <td>PARKER SEAL/LOS ANGLS</td> <td>• 0750</td> <td>10-54-4</td> <td>XOS</td> <td>2500-0</td> <td></td> <td>•</td> <td>11/02</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>È.</td>                                                                                                                                                                                                                                                                        |                      | PARKER SEAL/LOS ANGLS | • 0750 | 10-54-4      | XOS   | 2500-0  |      | •   | 11/02 |            |      |      |      | 0        | È.          |
| C-931-7         ROUNC         500.0         500.0         500.0         60X         500.0         60X         11         CHOB         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A-303-1 NEUFRENE     | PARKER SCAL/LUS ANGLS | 0610.  |              | K D   | 3000.0  |      | -   | 40/40 |            |      |      |      | -<br>-   | ؾ<br>ع<br>ع |
| C-957-7         NEUPRER         PARKER         SEAL/LOS         MGL S         10         CHOB           C-957-7         NEUPRER         PARKER         SEAL/LOS         MGL S         10         10         11         10         13         B0H           C-957-7         NEUPRER         PARKER         SEAL/LOS         MGL S         11-2267         GOX         150.0         00/04         10         13         B0H           C-957-7         NEO         NE         SEAL/LOS         MGL S         11-2267         GOX         150.0         00/04         10         10         13         B0H           CANDON RESISTONS         MA         71-2267-1         GOX         500.0         50         00/04         A         10         701         71         71         10         701         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70         70 <td></td> <td>PARKER SEAL/LUS ANGLS</td> <td></td> <td>10-54-6</td> <td>X 0 2</td> <td>500.0</td> <td></td> <td>20</td> <td>40/00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                       |                      | PARKER SEAL/LUS ANGLS |        | 10-54-6      | X 0 2 | 500.0   |      | 20  | 40/00 |            |      |      |      |          |             |
| C-937-7         Micks Scal/LOS AndLS         10-54-7         GOX 1500.0         10         70         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701         701 <t< td=""><td></td><td>BABYTE STALLOS ANGLO</td><td></td><td></td><td>33</td><td>0.000</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                    |                      | BABYTE STALLOS ANGLO  |        |              | 33    | 0.000   |      | 1   |       |            |      |      |      |          |             |
| Consist resistors         Tot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | PARKER SEAL/LUS ANGLS |        |              | ş     |         |      | 2   | *0/00 |            |      |      |      | <br><    |             |
| CANNON         RESISTONS         M         T1-7267-1         GOX 500.0         D0/04         A         10         B0MJ           CANNON         RESISTONS         M         70-2215         GOX 500.0         00/04         A         10         B0MJ           CANNON         RESISTONS         M         70-2215         GOX 500.0         00/04         A         10         B0MJ           CANNON         RESISTONS         M         70-2215-1         GOX 500.0         50         00/04         A         10         B0MJ           CANNON         RESISTONS         M         70-2215-2         GOX 160.0         50         00/04         A         10         B0MJ           CANNON         RESISTONS         M         70-2215-2         GOX 160.0         50         00/04         A         10         CMH           CANNON         RESISTONS         M         71-2362-1         GOX 500.0         50         00/04         A         10         CMH           CENANC         PASUL         RSUL         RSUL         71-2362-2         GOX 100.0         00/04         A         10         CMH           CENANC         PASUL         RSUL         71-2362-2         GOX 100.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CARDON RESISTORS     |                       |        | 71-2267      |       | 150-0   |      |     |       | 701        | 701  |      |      | - c      |             |
| Cathon RESISTORS         MR         70-2215         GOX 500.0         500.0         600.04         A         10         BONJ           Cathon RESISTORS         MR         70-2215-1         GOX 500.0         50         00/04         A         11         BONJ           Cathon RESISTORS         MR         70-2215-1         GOX 500.0         50         00/04         A         11         BONJ           Cathon RESISTORS         MR         70-2215-2         GOX 160.0         50         00/04         A         11         BONJ           Cathon RESISTORS         MR         71-2362         GOX 500.0         50         00/04         A         11         CAHU           Cathon RESISTORS         MR         71-2362         GOX 500.0         50         00/04         A         10         CAHU           Cathon Resister         712-2362-1         GOX 500.0         100.0         100.0         A         10         CAHU           Cathon Resister         712-2362-1         GOX 500.0         100.0         00/04         A         10         CAHU           Cathon Rest         712-2362-2         GOX 1500.0         100.0         000/04         A         10         CAHU <td< td=""><td>CANDON NESTSTONS</td><td></td><td></td><td>71-2267-1</td><td>Š</td><td>500-0</td><td></td><td></td><td>00/04</td><td>•</td><td></td><td></td><td></td><td></td><td>BOH.</td></td<>                                                                                                                                                                                                                                                                                                        | CANDON NESTSTONS     |                       |        | 71-2267-1    | Š     | 500-0   |      |     | 00/04 | •          |      |      |      |          | BOH.        |
| Canadian resistons         Mail         70-2215-1         GOX         500.0         50         00/4         A         11         B0MJ           Canadian resistons         Mail         resistons         Mail         resistons         Mail         resistons         A         11         B0MJ           Canadian resistons         Mail         resistons         Mail         resistons         Mail         resistons         A         11         B0MJ           Canadian resistons         Mail         resistons         Mail         resistons         Mail         resistons         A         11         B0MJ           Canadian resistons         Mail         resistons         Mail         resistons         resistons         A         11         resistons         A         10         resisons         A         10                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CARGON RESISTORS     | 뚶                     |        | 70-2215      | COX   | 500.0   |      | -   | 40/00 |            |      |      |      | 4        | BON         |
| CHARGN RESISTORS         MR         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CANDEN RESISTORS     | N.N.                  |        | 70-2215-1    | Š     | 500.0   |      | 50  | 00/04 |            |      |      |      | 4        | 1 BDM.      |
| CERAME         TLSTC         THACK         TLSTC         THACK         THACK <t< td=""><td>CARGON RESISTORS</td><td>Ť</td><td></td><td>70-2215-2</td><td>20X</td><td>160.0</td><td></td><td></td><td></td><td>700</td><td>700</td><td></td><td></td><td>0</td><td>3 80H</td></t<>                                                                                                                                                                                                                                   | CARGON RESISTORS     | Ť                     |        | 70-2215-2    | 20X   | 160.0   |      |     |       | 700        | 700  |      |      | 0        | 3 80H       |
| CERANC         PLETC         INSULTRLONYCALEX         CORP         71-2362-1         GDX         500.0         00/04         A         10         CKHU           CERANC         PERSULTRLONYCALEX         CORP         71-2362-1         GDX         500.0         00/04         A         13         CKHU           CERANC         PERSULTRLONYCALEX         CORP         71-2362-2         GDX         1500.0         00/04         A         13         CKHU           CERANC         PONDER         INSUL         ROSEMONT ENG.         CORP         70-1992         GDX         1500.0         00/04         A         10         FJHD           CERANC         PONDER         INSUL         ROSEMONT ENG.         CORP         70-1992         GDX         1500.0         00/04         A         10         FJHD           CERANC         PONDER         INSUL         ROSEMONT ENG.         CORP         70-1992-1         GDX         10         00/04         A         10         FJHD           CERANC         PONDER         INSUL         ROSENONT ENG.         CORP         70-1992-1         GDX         00/04         A         10         FJHD           CERANTC         PONDER         INSUL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CERANC PLATC INSULT  |                       |        | 71-2362      | ŝ     | . 500.0 |      | ŝ   | 40/00 |            |      |      |      | ~<br>•   | L CKH       |
| CERAME         T-2362-2         GOX         100.0         1000         N999         N999         N999         N 13         CKHU           CERAMIC         POMBER         INSUL         ROSEMONT ENG.         CORP         71-2362-2         GOX         1500.0         50         00/04         A         11         FJHO           CERAMIC         POMBER         INSUL         ROSEMONT ENG.         CORP         70-1592         GOX         1500.0         50         00/04         A         10         FJHO           CERAMIC         POMBER         INSUL         ROSEMONT ENG.         CORP         70-1992         GOX         1500.0         00/04         A         10         FJHO           CERAMIC         POMBER         INSUL         ROSEMONT ENG.         CORP         70-1992-1         GOX         1500.0         00/04         A         10         FJHO           CERAMIC         POMBER         INSUL         ROSEMONT ENG.         CORP         70-1992-1         GOX         1000         N999         N999         N999         710         710         710         710         710         710         710         710         710         710         710         710         710         710                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CERANC PLSTC INSULT  | -+ LONYCALEX CORP     |        | 71-2362-1    | ×09   | 500.0   |      | -   | 00/04 |            |      |      |      | <b>×</b> | D CKH       |
| CERAMIC FONCER INSUL         RDSEMONT ENG.         CORP         70-1592         GOX         1500.0         50         00/04         A         11         FJHD           CENANTIC FONCER INSUL         RDSEMONT ENG.         CORP         70-1592         GOX         1500.0         00/04         A         10         FJHD           CERANTIC FONCER INSUL         RDSEMONT ENG.         CORP         70-1992         GOX         1500.0         00/04         A         10         FJHD           CERANTIC FONCER INSUL         RDSEMONT ENG.         CORP         70-1992.1         GOX         1500.0         00/04         A         10         FJHD           CERANTIC ROD         GOS         190.0         1000         00/04         A         10         FJHD           CERANTIC ROD         GOS         1500.0         1000         00/04         A         10         FJHD           CERANTIC ROD         GAS         71-2606         A-50         713.0         513         11         FJHD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CERANC PLSTC INSULTI | -+ IGNYCALEX CORP     |        | 71-2362-2    | ŝ     | 100.0   | 1000 |     |       | 666N       | 666N |      |      | -<br>-   | B CKH       |
| CERMANIC         CONCEX         NUMBER         NUMBER <thnumer< th=""> <thnumer< th="">         NUMER<td>CERANIC PONDER INSU</td><td>ROSEMONT ENG. CORP</td><td></td><td>70-1592</td><td>X 00</td><td>1500.0</td><td></td><td>20</td><td>00/04</td><td></td><td></td><td></td><td></td><td>&lt;</td><td>エー・</td></thnumer<></thnumer<>                                                                                                                                                        | CERANIC PONDER INSU  | ROSEMONT ENG. CORP    |        | 70-1592      | X 00  | 1500.0  |      | 20  | 00/04 |            |      |      |      | <        | エー・         |
| LEARNAL TUDOR INSUL AUSERUN ENG. LUKY 70-1992-1 6UX 1500.0 1000 N999 N999 5 5 13 FJHD<br>- CEARNIC ROD 6AC 200 513 71-2606 A-50 513 71-2606 713 0 513 71-2000 713 0 513 71-2000 713 0 513 71-2000 713 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CEMARIC PONDER INSU  |                       |        | 2661-04      | Š     | 1500.0  |      | -   | 20/04 |            |      |      |      | <        | エーロ         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      | CAL CORPUSATION CORP. |        | 70-1992-1    |       | 1500.0  | 1000 |     |       | 666N       | 666N |      |      |          |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |                       |        | 0007-11      |       |         | 510  |     |       |            |      |      |      | -        | INC.        |

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MATERIAL . TEST DATA BY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

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MATERIAL TEST DATA RY MANUFACTURER S BESIGNATION AS 14 31 JAN 72

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| MFGR 5 DESIGNATION       | MANUFACTURER                    | SPFC. 1    | EST RPT MO. | TEST       | 7 F S T | TEST  | 1 dw I | ND DF | ۲Ъ∆L  | Flaf P        | ⊥ਲ ਹਾ∣ਰ  | н<br>а   | MATL        |
|--------------------------|---------------------------------|------------|-------------|------------|---------|-------|--------|-------|-------|---------------|----------|----------|-------------|
|                          | F                               | THICK.     |             | ENVR       | PRESS   | TEMP  | ENER   | REACT | 1~10c | - 1d          | 151 6055 | -        | CODE        |
| CENRUBEND AND CU BE WIR  | EMSFC                           | -          | 0-2042      | 60 X       | 6.2     | 1000  |        | -     | 6661  | 006N          |          | >        | ANGIM       |
| CERRIDEND AND CU BE WIRI | EMSFC                           | ~          | 0-2042-1    | 60X        | 16.5    | 1000  |        | -     | 6665  | 006N          |          | >        | MI DMA      |
| CERROBEND-COPPER PARTCL. | SHISEC                          | -          | 0-2041      | COX<br>COX | 6.2     | 1000  |        | -     | 6667  | 6667          |          | ~        | ANGIM       |
| CERROBEND-CUPPER PARTCL  | SMSFC                           | -          | 0-2041-1    | COX        | 16.5    | 1 000 |        | -     | 6667  | ,999          |          | ר<br>ה   | NI SMP      |
| CFX LUBRICANT            | MARCHEM                         | ~          | 1-2572      | ŝ          | 5000.0  |       | 50     | 40/00 |       |               |          | -        | . CZGF9     |
| CFX LUBRICANT            | HAR CTFH                        | ~          | 1-2572-1    | 60X        | 2500.0  |       |        | 10/10 |       |               |          | L<br>L   | C ZGFB      |
| CFX LUBRICANT            | XARCHEN                         | ~          | 1-2572-2    | Š          | 2000.0  |       |        | 10/10 |       |               |          | T<br>Ž   | ) CZGF9     |
| CFX LUBRICANT            | MAR CHEM                        | ~          | 1-2572-3    | COX<br>COX | 1500.0  |       |        | 10/10 |       |               |          | T        | I C ZGFB    |
| CFX LUBRICANT            | MARCHEM                         | -          | 1-2572-4    | ŝ          | 1000.0  |       |        | 01/02 |       |               |          | T L      | 0 C26F8     |
| CFX LUBRICANT            | MARCHEM                         | ~          | 1-2572-5    | 60X        | 500.0   |       |        | 00/07 |       |               |          | A 1(     | C 26FB      |
| CHENCERAN/GLASS LANINAT  | ENNITTAKER (PACE DIV.)          | ~          | 91918       | õ          | 1500.0  |       |        | 00/04 |       |               |          | A 1(     | C C R H D H |
| CHENCERAN/GLASS LANINATI | ENNLTTAKER (PACE DIV.)          | ~          | 9-1978      | COX<br>COX | 1500.0  |       | 50     | 00/04 |       |               |          | 4        | CRHOH       |
| CHENCERAN/GLASS LAHINAT  | EMMITTAKER (PACE DIV.)          | r-         | 1-8791-0    | Š          | 1000.0  | 1000  |        | -     | 6667  | 0 <b>66</b> N |          | ۲<br>۹   | CRHOH       |
| CAFR. 0X 607             | HUGHSON CHEMICAL                | ~          | 1-2434      | COX<br>COX | 100.0   |       |        |       | 270   | 270           |          | -<br>-   | ABCKX       |
| CHEMICK 307              | HUGHSON CHEMICAL                | -          | 1-2434-1    | ŝ          | 1550.0  |       | 50     | 70/00 |       |               |          | A 1      | ABCKX       |
| CHEMICK 607              | HUGHSON CHEMICAL                | ~          | 1-2434-2    | GOX        | 1550.0  |       |        | 10/10 | •     |               |          | 1        | ABCKX       |
| Ć                        | THJOKOL CHEM CORP               | -          | 1961-0.     | A-50       | 85.0    | 79 I  |        |       |       |               |          | -        | XCHVQ 3     |
| CHR                      | THIOKOL CHEM CORP               | ~          | 1-1961-0    | A-50       | 115.0   | 303   |        |       |       |               |          | -        | XCHVO .     |
| COM                      | THIOKOL CHEM CORP               | ~          | 0-1961-2    | A-50       | 132.0   | 295   |        |       |       |               |          | F        | XCHVO 6     |
| CMR                      | THIDKOL CHEM CORP               | ~          | 6-1961-0    | A-50       | 156.0   | 310   |        |       |       |               |          | -        | XCHVO .     |
|                          | THIOKOL CHEM CORP               |            | 0-1961-4    | I          | 122.0   | 302   |        |       |       |               | •        | -        | XCHVO 1     |
| CMX                      | THIOKOL CHEM CORP               | ~          | 0-1961-2    | INN        | 314.0   | 411   |        |       |       |               |          | H<br>H   | XCHAO       |
| Cen                      | THIOKOL CHEM CORP               | ~          | 1977        | A-50       | 133.0   | 294   |        |       |       |               |          | -        | XCHNO .     |
| ĊĦ                       | THIDKOL CHEM CORP               |            | 1-1977-1    | A-50       | 131.0   | 304   |        |       |       |               |          | 11<br>1- | XCHVO .     |
| CORR                     | THIOKOL CHEM CORP               | 1-         | 2-1271-2    | A-50       | 120.0   | 290   |        |       |       |               |          | -        | XCHAO 9     |
| Cite                     | THIOKOL CHEM CORP               | ~          | 0-1977-3    | A-50       | 112.0   | 279   |        |       |       |               |          | ii<br>F  | XCHAO       |
| CIR                      | THIOKOL CHEM CORP               | -          | 4-1977-4    | I          | 778.0   | 470   |        |       |       |               |          | 1        | XCHVQ 1     |
| CKR                      | THIOKOL CHEM CORP               | -          | 0-1977-5    | HMH        | 757.0   | 473   |        |       |       |               |          | T        | XCHVO :     |
|                          | THIOKOL CHFM CORP               | -          | 0-1977-6    | Ĩ          | 259.0   | 382   |        |       |       |               |          | F        | XCHVO 3     |
| COBALT NITRATE/BORDN     | KSFC                            | -          | 0-2054      | 60X        | 6.2     | 1000  |        | -     | 6661  | 666 N         |          |          | ANNOF       |
| COBALT NITRATE/BORON     | MSFC                            | 1          | 0-2054-1    | ŝ          | 16.5    | 1000  |        | -     | 6660  | 000X          |          |          | AUMOF       |
| COIN SILVER              | THE WILKINSON CO.               |            | 1-2271      | X 09       | 1500.0  |       | 50     | 40/00 |       |               |          | 4        |             |
| COJM SILVER              | THE WILKINSON CD.               | - <b>r</b> | 1-2271-1    | ŝ          | 0.0021  |       | C y    | 40/00 |       |               |          |          | N COCO      |
| FUNCTER FIC MORE LINER   | MONE INC                        | - 1-       |             |            |         |       | 2      | 20/10 |       |               |          | 17       | ERCOX       |
| CONFLEX THE HOSE LINER   | HOKE INC                        | - 1-       | 1-3001-2    | ŝ          | 2500.0  |       |        | 00/04 |       |               |          | •        |             |
| COLFLEX TFE HOSE LINER   | HOKE INC                        | •          | 1-3001-3    | ŝ          | 2000.0  |       |        | 10/00 |       |               |          | 4        | D EGCOX     |
| COPPER                   | ANACONDA WIRE + CABLE CO        | ~          | 1-2672      | A-50       | 748.0   | 513   |        |       |       |               |          | i<br>F   | 5 DTMCX     |
| COPPER                   | ANACONDA WIRE + CARLE CD        | • - 1      | 1-2672-1    | A-50       | 757.0   | 515   |        |       |       |               |          | -        | 5 DIMCX     |
| COPPER                   | ANACONDA MIRE + CABLE CO        | 1          | 1-2672-2    | HWW        | 757.0   | 522   |        |       |       |               |          | - F      | DIMCX       |
| CUPPER<br>Former Stein   | ANACONDA WIKE + LANLE LU<br>Car | - r        | 11-2012-5   |            | 0.025   | 100   |        |       |       |               |          |          |             |
| TIRES STALT              |                                 | •••        | 1-2651-1    |            | 0.011   |       |        |       |       |               |          |          |             |
| COPPER-INDIAP BISKITH    | MSFC                            |            | 10-2040     | 60X        | 6.2     | 1000  |        |       | 666N  | 000N          |          | · ~ ·    | 3 AMMCF     |
|                          |                                 |            |             |            |         |       |        |       |       |               |          |          |             |

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MATERIAL TEST JATA BY MANUFACTURFR S DESIGNATION AS DF 31 JAN 72

| MFGR S DESIGNATION                     | MANUFACTURER            | SPEC.<br>THICK. | TEST RPT ND. | 7EST<br>ENVK   | TEST<br>PRESS | TEST<br>Temp | I MP T<br>ENER | NO OF<br>REACT | FLASH<br>POINT | FIRF D | 1 2<br>1 2<br>1 5<br>1 ()<br>1 5<br>1 () | 11 R<br>55 1 |         | 4ATL<br>COGF |
|----------------------------------------|-------------------------|-----------------|--------------|----------------|---------------|--------------|----------------|----------------|----------------|--------|------------------------------------------|--------------|---------|--------------|
| LT1431 0 MIT 041-63000                 | 1.131                   |                 |              |                |               |              | 1              | •              |                |        |                                          |              | •       | 201          |
| CONFER INVIOR BISHOLD                  |                         |                 | 1-0+02-01    | ŝõx            | 16.5          | 1000         |                |                | 0667           | 666N   |                                          | <u>ۍ</u>     | к.<br>П | ALMO F 2     |
| CONTRACTING COALED                     | ANACONDA WIRE + LABLE C | 0               | 70-2097      | A-50           | 801.0         | 520          |                |                |                |        |                                          | -            | 5       | DMCMC        |
| CUPPER/13% CUATED                      | AWACONDA WIRE + CABLE C | 0               | 70-2097-1    | A-50           | 705.0         | 485          |                |                |                |        |                                          | •            | 5       | DMCMS        |
| CUPPER/IIN COATED                      | ANACONDA WIRE + CABLE C | 0               | 70-2097-2    | 111            | 754.0         | 515          |                |                |                |        |                                          | -            | 5       | MUMO         |
| CUPPER/TIN COATED                      | ANACONDA WIRE + CABLE C | 0               | 70-2097-3    | HMH            | 750.0         | 516          |                |                |                |        |                                          |              | 1 m     | N UWCO       |
| CUPPER/IIM PLATED                      | GAC                     |                 | 71-2702      | A-50           | 757.0         | 513          |                |                |                |        |                                          | -            | 5       | THOMS        |
| CUPPER/IIM PLATED                      | GAC                     |                 | 71-2702-1    | A-50           | 779.0         | 520          |                |                |                |        |                                          | -            | 5       | TMCM         |
| CURFING DOLD GLASS                     | CORNING GLASS           |                 | 70-2203      | A-50           | 779.0         | 403          |                |                |                |        |                                          | -            | 5       | NMT AX Y     |
| CUZNING OUID GLASS                     | CORNING GLASS           |                 | 70-2203-1    | A-50           | 713.0         | 486          |                |                |                |        |                                          |              | 5       | XXVINC       |
| CURNING DOLO GLASS                     | CORNING GLASS           |                 | 70-2203-2    | A-50           | 775.0         | 49R          |                |                |                |        |                                          | -            | 5       | XXAIMO       |
| CRESS CHROMIUM PLATED                  | R.R.                    | •               | 71-2382      | Š              | 1500.0        |              | 50             | 00/04          |                |        |                                          | <b>1</b>     | -       | N HWX        |
| CRESS CHRUMIUM PLATED                  | × ×                     |                 | 71-2382-1    | хoу            | 1500.0        |              |                | 00/04          |                |        |                                          |              |         | XNTNX        |
| LETSIAL SVSKBI370-22                   | HAMILTON STANDARD       |                 | 71-2263      | ž              | 5000.0        |              |                | C0/04          |                |        |                                          |              | 0       | X X 7 I OC   |
| CRTSTAL SYSKB1370-22                   | HAMILTON STANDARD       |                 | 71-2263-1    | 60X            | 6800.0        |              |                | 00/04          |                |        |                                          | •            | 0       | DIAXX        |
| CKT51AL 5V5K81370-22                   | HAMILTON STANDARD       |                 | 71-2263-2    | Š              | 3000.0        | 1000         |                | -              | 6667           | 0007   |                                          | < ⊲          | 10      |              |
| CU WIRE-MORH-2                         | PHELPS DODGE            |                 | 71-2673      | INI            | 775.0         | 515          |                |                |                |        |                                          | +-           | 5       | XXUM         |
|                                        | PHELPS DODGE            |                 | 71-2673-1    | INN            | 789.0         | 520          |                |                |                |        |                                          | . <b>j</b>   | ۰<br>۲  | NC XX        |
| CYCLEWELD 55-9-100                     | CHRYSLER CORP           |                 | 71-2495      | 60 X           | 1500.0        |              | 50             | 00/00          |                |        |                                          | 4            | 12      | BC. XX       |
| CACLEMELD 55-9-100                     | CHRYSLER CORP           |                 | 71-2495-1    | <b>X</b> 09    | 1500.0        |              |                | 00/04          |                |        |                                          | 4            | 0       | SBC XX       |
| CTULEWELD 55-9-100                     | CHRYSLER CORP           |                 | 71-2495-2    | GOX            | 1000.0        |              |                |                | 554            | 554    |                                          | C            | 13      | BBCXX        |
| DELAT PHUSPHATE ASBEST                 | JSG-E- CHEM MATL        |                 | 10-88-11     | ŝ              | 50.0          |              |                | -              | 6650           | 000V   |                                          | 4            | El      | TFL XX       |
| DC-M-4074 74 MEK                       | DOW CORNING CORP        |                 | 71-2497      | X 0 9          | 1500.0        |              | 50             | 00/04          |                |        |                                          | 4            |         | UCKXX        |
|                                        | DUM CURNING CURP        |                 | 71-2497-1    | SO X           | 1500.0        |              |                | 00/04          |                |        |                                          | 4            | 10      | NUCEXX       |
| DO-LALADVA YKIREK                      | DOW CORNING CORP        |                 | 71-2497-2    | х<br>оу        | 1000.0        | 1000         |                | ۰.             | 666            | 6667   |                                          | •            | 13      | UCEXX        |
|                                        | DOW CORNING CORP        |                 | 70-1454      | A-50           | 524.0         | 44 T         |                |                |                |        |                                          | -            | 15      | RBCGS        |
| 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | DOW CURNING CORP        |                 | 70-1954-1    | A-50           | 0.965         | 373          |                |                |                |        |                                          | +-           | 15      | RBGGS        |
| DCV90-006 RTV                          | DOM CORNING CORP        |                 | 70-1954-2    | A-50           | 341.0         | 391          |                |                |                |        |                                          | • •          | 10      | 8195 S       |
| UC-V90-006 RIV                         | DOW CORNING CORP        |                 | 70-1954-3    | A-50           | 370.0         | 406          |                |                |                |        |                                          | -            | 5.4     | RBGGS        |
|                                        | DOW CURNING CORP        | •0150           | 70-2029      | Š              | 1500.0        |              | 50             | 00/07          |                |        |                                          | ۹            | 11      | XX JON       |
|                                        | DUW CURNING CORP        | • 0750          | 10-2029-1    | č<br>G         | 1500.0        |              |                | 00/04          |                |        |                                          | ۹            | 101     | ADPXX        |
|                                        | DON CURNING CURP        |                 | 2-6202-02    | Š.             | 200.0         |              |                |                | 504            | 204    |                                          | <u>ں</u>     | 13      | ADPXX        |
|                                        | DOM CORMING COKP        |                 | 70-2029-3    | 202            | 1000.0        |              |                |                | 450            | 450    |                                          | ۵            | 13      | XXIQUI       |
|                                        | DUM CORMING CURP        |                 | C07-11       | 0 <b>5 - 4</b> | 173.0         | 509          |                |                |                |        |                                          | -            | 15      | ZCKX3        |
|                                        | DON CURNING CURP        |                 | 1-512-11     | A-50           | 776.0         | 511          |                |                |                |        |                                          | <b>h</b>     | 15 (    | ZCKXX        |
|                                        | DUN CUKNING CUKP        |                 | 71-2527      | × OS           | 1500.0        |              | 50             | 00/00          |                |        |                                          | ◄            | 1       | <b>AG4XX</b> |
|                                        | DOW CORNING CORF        |                 | 71-2527-1    | Š<br>09        | 1500.0        |              |                | 00/04          |                |        |                                          | 4            | 101     | AGHXX        |
|                                        | DUM CUKNING CURP        |                 | 71-2527-2    | Š              | 6.2           | 1000         |                | -              | 6651           | 5061   |                                          | 7            | 13      | AGHXX        |
|                                        | DOW CUKNING CURP        |                 | 71-2527-3    | X OS           | 1000.0        |              |                |                | 704            | 704    |                                          | 0            | 13 (    | AGHXX        |
|                                        | DOW CUKWING CURP        |                 | 71-2273      | A-50           | 630.0         | 184          |                |                |                |        |                                          | <b>}-</b> -  | 15      | BCKAD        |
|                                        | DUN CUXNING SURP        |                 | 71-2273-1    | A-50           | 758.0         | 498          |                |                |                |        |                                          | +            | 15 6    | ITCL XX      |
|                                        | DOW CORNING CORP        |                 | 71~2592      | A-50           | B15.0         | 476          |                |                |                |        |                                          | -            | 15      | XCKXX        |
|                                        | CON CURNING CURP        |                 | 71-2592-1    | A-50           | 788.0         | 501          |                |                |                |        |                                          | -            | 15      | XCKXX        |
|                                        |                         |                 | 10-2227      | XQS            | 4500.0        |              | ŝ              | 00/04          |                |        |                                          | ۹            | 11      | XXXX         |
| DC+ 104 FURE FLUID                     |                         |                 | 1-1222-01    | COX            | 5 000 • U     |              | 50             | 01/04          |                |        |                                          | ⊢            | Ξ       | ****         |

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|----------------------------------|--------------------------------------------|-----------------|---------------|--------------|---------------|------------------|-------------|-----------------|----------------|----------------------|-----------------|-----------|------------|--------------------------------------------------------------------------------------------------|-----------------------------------------|
| WFGR S DESIGNATION               | MANUF AC TUR FR                            | SPEC.<br>THICK. | TEST RPT NO.  | TEST<br>ENVR | TEST<br>PRESS | TFST I<br>TFMP F | MPT<br>N TP | VN (IF<br>REACT | LASH<br>NIN    | 1 1 4 1 4<br>1 4 1 4 | סגויס<br>וואד נ | WT<br>NSS | а I<br>I I | ¥<br>C C                                                                                         | 5 T                                     |
| DC-704 PUMP FLUID                |                                            |                 | 70-2227-2     | 60 X         | 2500.0        |                  |             | 00/04           |                |                      |                 |           | A 1(       | O BV                                                                                             | XXX                                     |
| DC-704 PUMP FLUID                |                                            |                 | 70-2227-3     | 20X          | 3000.0        |                  |             | 01/02           |                |                      |                 |           |            | 0<br>8<br>0<br>0                                                                                 | XXXX                                    |
| DC-704 PUMP FLUID                |                                            |                 | 10-2221-4     | ě,           | 3500.0        |                  | -           | 20/10           |                |                      |                 |           |            |                                                                                                  |                                         |
| DC-704 PUMP FLUID                |                                            |                 | 70-2227-6     |              | 040004        |                  |             |                 |                |                      |                 |           |            |                                                                                                  |                                         |
| DC-704 PUMP FLUID                |                                            |                 | 70-2227-7     | x ng         | 5000.00       |                  | -           | 10/10           |                |                      |                 |           |            | 2<br>0<br>0<br>0                                                                                 |                                         |
| DC-994 VARNISH                   | DON CORNING CORP                           |                 | 71-2404       | 60 X         | 250.0         |                  |             | 00/04           |                |                      |                 |           | 4          | C BT                                                                                             | C X                                     |
| DC-994 VARNISH                   | DOW CORNING CORP                           |                 | 71-2404-1     | 60 X         | 74.0          | 1000             |             | -               | 9994           | 060N                 |                 |           | ۲.<br>۲    | 3 81                                                                                             | C: X                                    |
| DC-997 VARNISH                   | DOW CORNING CORP                           | •0050           | 70-2189       | X QS         | 1500.0        |                  |             | 00/04           |                |                      |                 |           | ⊒:<br>∢ (  | 0 81                                                                                             | С<br>С                                  |
| DC-991 VARNISH<br>DC-007 VARNISH | DUW CURNING CURP                           |                 | 70-2189-2     |              | 1500-0        |                  | ر<br>ح      | 70700           | 547            | 242                  |                 |           | <br>       | 2 B - 1<br>1 B - 1                                                                               |                                         |
| NC-007 VARISH                    | DOM CORNING CORP                           |                 | 70-2189-2     |              |               | 1000             | 2           | +0.00           | 000            | 0000                 |                 |           | <br>       | - H<br>- H<br>- H<br>- H<br>- H<br>- H<br>- H<br>- H<br>- H<br>- H                               | 22                                      |
| DC-997 VARNISH                   | DOM CORNING CORP                           |                 | 70-2189-4     | XOS          | 500.0         | -                |             | -               | 643            | 643                  |                 |           |            | 3 BT                                                                                             | с<br>С                                  |
| MC-997 VARNISH                   | DOW CORNING CORP                           |                 | 70-2189-5     | 50X          | 1000.0        |                  |             |                 | 5 9')          | <b>JR</b> C          |                 |           | с<br>С     | 3 HT                                                                                             | CLX                                     |
| DC-997 VARNISH                   | DOW CORNING CORP                           |                 | 70-2189-6     | 50 X         | 1500.0        |                  |             |                 | 387            | 3 A ,                |                 |           | ц<br>с     | 3 H T                                                                                            | с<br>С                                  |
| DC-997 VARNISH                   | DOW CORNING CORP                           |                 | 70-2189-7     | 60 X         | 2000.0        | 1                |             |                 | 3 7 U          | 370                  |                 |           | -<br>-     | 3 81                                                                                             | СĽ Х                                    |
| DC-997 VARNISH                   | DOW CORNING CORP                           |                 | 71-2480       | A-50         | 767.0         | 172              |             |                 |                |                      |                 |           |            | 5 B1                                                                                             | ິ<br>ປີ                                 |
| DC-997 VARNISH                   | DOW CORNING CORP                           |                 | 71-2480-1     | A-50         | 71.0          | 501              |             |                 |                |                      |                 |           |            | 5 H T                                                                                            | С<br>С                                  |
| 2-CA-FLUORO-BIPHENYL             | TASFC                                      |                 | 70-2066       | 60X          | 6.Z           |                  |             |                 | 287            | 162                  |                 |           |            | N I<br>N I                                                                                       | (X d d                                  |
| 0EL R 1.4                        | E.I. DUPONT COINC.                         |                 |               | X<br>C<br>S  | 0°2°          | 1000             |             |                 | 5 2 4<br>5 2 4 | 0003                 |                 |           | ~ 0        | ថខ                                                                                               | × ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |
| DELKIN                           | E-1. DUPUNI CULLINC.                       | 0320            | 10-102-10     | 2.5          | 25.0          | •                | 00          | 20110           | זיול           | 504                  |                 |           |            | 5 a                                                                                              |                                         |
| DELRIN                           | CAL OUTON CONTRACT<br>S.T. DUDONT CO. JMC. |                 | 10-102-11     |              |               |                  |             | 20/20           |                |                      |                 |           |            | 52                                                                                               |                                         |
| DEL RIN                          | PART DUPONT COMPANY                        | 0.750           | 10-102-1-     | x cy         | 0.0001        |                  |             | 10/10           |                |                      |                 |           |            | 52                                                                                               |                                         |
| DELRIN                           | E-I+ LUONT CO+INC+                         |                 | 10-102-2      | X OS         | 50.0          | •                | 2           | ,<br>,          | 485            | 485                  |                 |           | 0          | 1<br>7<br>7                                                                                      | (Xry                                    |
| DELRIN                           | E.I. DUPONI CO. INC.                       |                 | 10-102-3      | 50X          | 50.0          |                  |             |                 | 457            | 457                  |                 |           | 2          | 3 24                                                                                             | AJXX                                    |
| DELKIN                           | E.I. DUPONT CU. INC.                       |                 | 10-202-4      | 60 X         | 500.0         |                  |             |                 | 382            | 392                  |                 |           | 2          | 3<br>0                                                                                           | (X f V                                  |
| DELRIN                           | E.I. DUPONT CO. INC                        |                 | 10-102-5      | 60 X         | 1000.0        |                  |             |                 | 373            | 373                  |                 |           | 0          | 3 0                                                                                              | X Y Y X                                 |
| DELRIN                           | E.I. DUPONT CDINC.                         | •0750           | 10-102-6      | ×09          | 500.0         |                  |             | C0/04           |                |                      |                 |           | 4          | ъ<br>С                                                                                           | (X LV                                   |
| DELRIN                           | E-I- DUPONT COINC-                         | • 750           | [0-102-7      | XOU          | 1000.0        |                  |             | 01/03           |                |                      |                 |           |            | ដែ<br>ខ                                                                                          |                                         |
|                                  | E.T. DUDANT COLLING                        | 0220            | 0-102-0       |              |               |                  |             | 70/70           |                |                      |                 |           | - 0        |                                                                                                  |                                         |
| DEXIGLASS INSULATION             | DEXTER CORP                                |                 | 70-1:93       | x OS         | 500.0         |                  | 50          | 10/00           |                |                      |                 |           | . 4        |                                                                                                  | 000                                     |
| DEVIGLASS INSULATION             | DEXTER CORP                                |                 | 70-1993       | 60 X         | 500.0         |                  |             | 00/04           |                |                      |                 |           | A L        | 0 8 F                                                                                            | (XQS)                                   |
| DEXIGLASS INSULATION             | DEXTER CORP                                |                 | 70-1993-1     | ×09          | 1500.0        |                  |             | 00/07           |                |                      |                 |           | A<br>A     | 0 8F                                                                                             | (XQ9)                                   |
| DEXIGLASS INSULATION             | DEXTER CORP                                |                 | 70-1993-1     | ۲<br>ون      | 1500.0        |                  | 0,          | 00/04           |                |                      |                 |           | A l        | 1 BF                                                                                             | 202                                     |
| DEFIGLASS INSULATION             | DEXTER CORP<br>Devite Corp                 |                 | 70-1993-2     | ŝ            | 500.0         | 1000             |             |                 | 6667           | 666N                 |                 |           | <br>       |                                                                                                  |                                         |
| TEXIGLASS INSULATION             | UEXIEK LUKP<br>Sim suemisi sobo            |                 | 71-2436       | × 0.9        |               | 1000             |             |                 | 1.00           | 5552                 |                 |           | <br>       | 0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 10.00                                   |
|                                  | SUN CHEMICAL CURP<br>Sun Chemical Curp     |                 | 71-2435-1     | x ng         | 1500.0        |                  | 50          | 00/04           | 5,55           | 545                  |                 |           |            | 59<br>190                                                                                        | 5 X X 3                                 |
| DM9-313                          | SUN CHEMICAL CORP                          |                 | 71-2435-2     | COX          | 1560.0        |                  |             | 01/01           |                |                      |                 |           | Ē          | 0 80                                                                                             | H S X )                                 |
| DAILL ROD                        | NR                                         | • 0150          | 70-2209       | CO X         | 500.0         |                  |             | 00/04           |                |                      |                 |           | V I        | NO<br>O                                                                                          | KXX3                                    |
| DAILL ROD                        | ZR                                         | •0750           | 70-2209-1     | X QU         | 500.0         |                  | 20          | UN /04          |                |                      |                 |           | ۰. ۲       |                                                                                                  |                                         |
| DRILL NUU                        | ZX                                         |                 | 10-2204-2     | 503          | 0.0041        |                  | 04          | 50/00           |                |                      |                 |           | A L        | 5                                                                                                | * * * *                                 |

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| IFGR S DESIGNATION  | MANUFACTURER           | SPEC.<br>THICK. | TEST RPT ND. | TEST<br>FNVR | TEST<br>PRESS | TEST 1<br>TEMP E | L L L L L L L L L L L L L L L L L L L | VC UF         | FLASH<br>POINI | F I RF | PRUP | <b>HT</b><br>055 |            | MATL<br>CUDE |     |
|---------------------|------------------------|-----------------|--------------|--------------|---------------|------------------|---------------------------------------|---------------|----------------|--------|------|------------------|------------|--------------|-----|
| R1LL 200            | NR                     |                 | 70-2209-3    | х OʻJ        | 1500.0        |                  | U                                     | 20/04         |                |        |      |                  | A 10       | CMXXX        | ×   |
| PRILUBE R22         | DRILUBE CD.            |                 | 10-56        | 60 X         | 6.2           |                  |                                       |               | 672            | 672    |      |                  | 0 13       | DACNX        | ×   |
| DURDCK 204          | PHYSICAL SCIENCES CORP |                 | 70-1937      | 60 X         | 1500.0        |                  | 50                                    | DC /04        |                |        |      |                  | A 11       | CHIAX        | ×   |
| NUROCK 204          | PHYSICAL SCIENCES CORP |                 | 70-1937-1    | 60 X         | 1000.0        | 1000             |                                       | _             | 5667           | 069N   |      |                  | Y 13       | CHIAX        | ×   |
| DURDCK 204          | PHYSICAL SCIENCES CORP | .0750           | 70-1937-2    | ç0X          | 1500.0        |                  | Ŭ                                     | <b>70/0</b> 5 |                |        |      |                  | A 10       | CHIAX        | ×   |
| LURDEK 204          | PHYSICAL SCIENCES CORP |                 | 70-1937-3    | COX          | 1500.0        | 1000             |                                       | Ī             | 6067           | 006N   |      |                  | A 13       | CHIAX        | ×   |
| NURDID 5013         | RUGERS CORP            |                 | 70-2222      | 80 X         | 1500.0        |                  | Ŭ                                     | 20/04         |                |        |      |                  | A 10       | DUCPI        | ۲,  |
| WROID 5813          | RDGERS CORP            |                 | 70-2222-1    | COX          | 1500.0        |                  | 50                                    | 20/04         |                |        |      |                  | V 11       | DUCPI        | A   |
| DURDID 5813         | ROGERS CORP            |                 | 70-2222-10   | 60 X         | 1000.0        |                  | Ū                                     | 10/10         |                |        |      |                  | 1 10       | DUCP1        | 4   |
| JURDID 5813         | ROGERS CORP            |                 | 70-2222-11   | 60X          | 500.0         |                  | Ŭ                                     | 20/04         |                |        |      |                  | A 10       | DUCP1        | 4   |
| NURDID 5813         | ROGERS CORP            |                 | 70-2222-2    | 60 X         | 1000.0        |                  |                                       |               | 560            | 940    |      |                  | n 13       | DUCP1        | A   |
| NURDID 5613         | ROGERS CORP            |                 | 70-2222-3    | (10 X        | 2500.0        |                  | -                                     | 10/10         |                |        |      |                  | T 10       | DUCPI        | ٩   |
| DURDID 5813         | ROGERS CORP            |                 | 70-2222-4    | XOS          | 1500.0        |                  | Ĩ                                     | 10/10         |                |        |      |                  | T 10       | DUCP 1       | ٩J  |
| DURUTD 5813         | RUGERS CORP            |                 | 70-2222-5    | X09          | 1000.0        |                  | Ŭ                                     | 10/10         |                |        |      |                  | 1 10       | DUCP1        | 4   |
| DURDID 5813         | ROGERS CORP            |                 | 70-2222-6    | 60 X         | 500.0         |                  | -                                     | 00/04         |                |        |      |                  | Å 10       | DUCP         | ٩   |
| DURGID 5813         | RUGERS CORP            |                 | 70-2222-7    | 60,          | 5000.0        |                  | 50                                    | <b>20/04</b>  |                |        |      |                  | V 11       | DUCP1        | 4   |
| DUROID 5813         | ROGERS CORP            |                 | 70-2222-8    | Š            | 2500.0        |                  | -                                     | 10/10         |                |        |      |                  | T 10       | DUCP I       | A I |
| DURDID 5813         | RUGERS CORP            |                 | 70-2222-9    | 60 X         | 1500.0        |                  | Ŭ                                     | 10/10         |                |        |      |                  | T 10       | DUCPI        | •   |
| D6AC .NICKEL PLATED | GAC                    |                 | 70-2159      | 60 X         | 4500.0        |                  | -                                     | 00/04         |                |        |      |                  | A 10       | DTHJM        | Ŧ   |
| E-515-8             | PARKER SEAL/LDS ANGLS  |                 | 69-1565      | <b>2</b> 03  | 5.0           | 1000             |                                       |               | 950            | 666N   |      |                  | J 13       | x0000        | ×   |
| E-515-8             | PARKEP SEAL/LOS ANGLS  |                 | 69-1565-1    | Xũg          | 10.0          | 1000             |                                       |               | 930            | 666N   |      |                  | J 13       | X 0000       | ÷   |
| E-515-8             | PARKER SEAL/LOS ANGLS  |                 | 69-1565-10   | CO X         | 1000-0        |                  |                                       |               | 299            | 299    |      |                  | 0 13       | X0000        | č   |
| E-515-8             | PARKER SEAL/LDS ANGLS  |                 | 69-1565-11   | 60X          | 1087.0        |                  |                                       |               | 296            | 296    |      |                  | D 13       | xaana        | č   |
| E-515-8             | PARKER SEA? /LOS ANGLS |                 | 69-1565-12   | 60 X         | 1265.0        |                  |                                       |               | 321            | 321    |      |                  | D 13       | 2000 X       | ×   |
| E-515-8             | PARKER SEAL/LOS ANGLS  |                 | 69-1565-13   | š            | 1500.0        |                  |                                       |               | 282            | 282    |      |                  | 0 13       | x 0000       | Ş   |
| E-515-8             | PARKER SEAL/LDS ANGLS  |                 | 69-1565-14   | CO X         | 1565.0        |                  |                                       |               | 331            | 331    |      |                  | D 13       | xaana        | ×   |
| E-515-8             | PARKER SEAL/LOS ANGLS  |                 | 69-1565-15   | Š<br>Š       | 2000.0        |                  |                                       |               | 29.0           | 290    |      |                  | 0 13       | N000 X       | ÷   |
| E-515-8             | PARKER SEAL/LOS ANGLS  | .0750           | 69-1565-16   | GOX          | 1500.0        |                  | Ŭ                                     | t0/00         |                |        |      |                  | A 10       | xaaaa        | X   |
| E-515-8             | PARKER SEAL/LOS ANGLS  | •0750           | 69-1565-17   | ŝ            | 2000.0        |                  | •                                     | 04/04         |                |        |      |                  | T 10       | ×0000        | ž   |
| E-515-8             | PARKER SEAL/LOS ANGLS  | • 0150          | 69-1565-18   | X09          | 2500.0        |                  | Ĭ                                     | 01/04         |                |        |      |                  | T 10       | XOODO        | ž   |
| E-515-8             | PARKES SEAL/LOS ANGLS  | •0750           | 69-1565-19   | õ            | 200.0         |                  | 000                                   | 04/04         |                |        |      |                  | 1          | x 0000       | ×   |
| E-515-8             | PARKER SEAL/LCS ANGLS  |                 | 69-1565-2    | × Ö          | 20.0          | 1000             |                                       |               | 920            | 666N   |      |                  | J 13       | xaaaa        | ž   |
| E-515-8             | PARKEN CLAL/LOS ANGLS  | •0150           | 69-1565-20   | õ            | 1000.0        |                  | 00                                    | 10/10         |                |        |      |                  | 1          | x 0 0 0 0    | Š   |
|                     | PARKER SEAL/LCS ANGLS  | • 0 7 5 0       | 69-1565-21   | 202          | 1500.0        |                  | 000                                   | 10/10         |                |        |      |                  | 1 11       | x0000        | č   |
| E-515-6             | PARKER SEAL/LOS ANGLS  | •0750           | 69-1565-22   | ŝ            | 2000-0        |                  | 000                                   | 10/10         |                |        |      |                  | T 11       | x 0000       | ž   |
| E-515-8             | PARKER SEAL/LOS ANGLS  |                 | 69-1565-3    | COX<br>COX   | 25.0          |                  |                                       |               | 604            | 621    |      |                  | 0 13       | x0000        | ž   |
| E-515-8             | PARKER SEAL/LOS ANGLS  |                 | 69-1565-4    | ŝ            | 30-0          | 1000             |                                       |               | 926            | 066N   |      |                  | J 13       | x 0000       | ×   |
| E-515-8             | PARKER SEAL/LOS APPLS  |                 | 69-1565-5    | GOX          | 40.0          |                  |                                       |               | 510            | 510    |      |                  | 0 13       | x0000        | č   |
| E-515-8             | PARKER SEAL/LOS ANGLS  |                 | 69-1565-6    | Š            | 50.0          |                  |                                       |               | 510            | 510    |      |                  | 0 13       | x 0000       | Ş   |
| E-515-8             | PARKER SEAL/LOS ANGLS  |                 | 69-1565-7    | COX<br>COX   | 50.0          |                  |                                       |               | 435            | 435    |      |                  | 0          | xuana        | č   |
| E-515-6             | PARKER SEAL/LDS ANGLS  |                 | 69-1565-B    | Š            | 100-0         |                  |                                       |               | 368            | 36я    |      |                  | <b>ر ا</b> | X 0000       | č   |
| E-515-6             | PARKER SEAL/LOS ANGLS  |                 | 69-1565-9    | 00           | 500.0         |                  |                                       |               | 297            | 297    |      |                  | 5          | x0000        | č   |
| E-515-8             | PARKER SEAL/LOS ANGLS  |                 | 70-1970      | A-50         | 746.0         | 202              |                                       |               |                |        |      |                  | T 15       | xaana        | č   |
| E~5]5-8             | PARKER SEAL/LUS ANGLS  |                 | 1-0161-02    | A-50         | 760.0         | 508              |                                       |               |                |        |      |                  | T 15       | x0000        | Š   |

MATERIAL TEST DATA BY MANUFACTURFH S DESIGNATION AS DF 31 JAN 12

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MATERIAL TEST DATA BY MANUFACTURFR S DESIGNATION AS OF 31 JAN 72

| MFGR 5 DESTGNATION | MANUFACTURER           | SPEC.<br>THICK. | TEST RPT NO.       | TEST<br>ENVR   | rest<br>Press | TEST IM<br>TEMP EN | PT NO<br>ER RE | OF FLAS | H FIRF<br>T PT | PREP W. | A So<br>I R | T MATI          | یں ہے    |
|--------------------|------------------------|-----------------|--------------------|----------------|---------------|--------------------|----------------|---------|----------------|---------|-------------|-----------------|----------|
| F-5] 5-8           | PARKER SEAL / DS ANGLS |                 | 70-1970-2          | 0 <u>5 1 6</u> | 748 0         | 610                |                |         |                |         | •           | 1000            | 2        |
|                    |                        |                 |                    |                |               |                    |                |         |                |         | - ,         |                 |          |
|                    | DADVED SCALLED AND D   |                 | 20-10-10           |                |               |                    |                |         |                |         | ~ +         |                 | 222      |
|                    | PARACE SCALICUS AUGUS  |                 | 2161-01            |                | 0.102         |                    |                |         |                |         | - 1         |                 | X X A    |
|                    | FARRER SCAL/LUS ANGLO  |                 | 1-2161-01          |                | 168.0         | 414                |                |         |                |         |             | 1000 41         | C X X    |
| 8-0+6-3            | PARKER SEAL/LOS ANGLS  |                 | 70-1972-2          | A-50           | 508.0         | 457                |                |         |                |         | -           | 15 0/00         | ž        |
| E-54C-8            | PARKER SEAL/LOS ANGLS  |                 | 70-1972-3          | A-50           | 760.0         | <b>¢</b> 87        |                |         |                |         | ►-          | 15 DVCC         | X        |
| E-540-8            | PARKER SEAL/LOS ANGLS  |                 | 70-1972-4          | A-50           | 758.0         | 500                |                |         |                |         | -           | 15 DVCS         | XXG      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 691564             | COX            | 5.0           |                    |                | 586     | 649            |         | ۵           | 13 CHU          | DXX<br>0 |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-1          | XQS            | 25.0          |                    |                | 450     | 536            |         | د           | 13 CHDC         | XXO      |
| E-617-9            | PARKER SEAL/LOS ANGLS  | .0750           | 69-1564-11         | X OS           | 4500.0        | ň                  | 00 0           | ,04     |                |         | ۹           | 11 CHD          | 0XX      |
| E-617-9            | PARKER SEAL/LOS ANGLS  | •0750           | 69-1564-12         | Š              | 4500.0        |                    | 5              | 10/     |                |         | -           | 10 CHDC         | ××0      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-13         | žoš            | 0.0004        |                    | 01             | 10,     |                |         | -           | 10 CHUC         | XXG      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-14         | X OS           | 3000.0        |                    |                | 279     | 278            |         | ٥           | 13 CHDC         | XXO      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-15         | X OS           | 3000.0        |                    |                | 234     | 234            |         | 0           | 13 CHDC         | XXC      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-16         | Š              | 5000.0        | 5                  | 000            | /04     |                |         | 4           | 11 CHDC         | XXC      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-17         | 60X            | 500.0         |                    | 010            | 10,     |                |         | -           | 10 CHDE         | XXO      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-18         | Š              | 1000.0        |                    | 010            | 10/     |                |         | -           | 10 CHDC         | XXO      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-19         | 60 X           | 1500.0        |                    | 010            | 10,     |                |         | -           | 10 CHUC         | XXC      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-2          | ŝ              | 50.0          |                    |                | 964     | 496            |         | 0           | 13 CHOC         | X        |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-20         | 60 X           | 2500.0        |                    | 01             | 10,     |                |         | 7           | 10 CHDE         | XXC      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-21         | Š              | 1000.0        | ŝ                  | 00 0           | 104     |                |         | <           | 11 CHOC         | XXO      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | <b>ü9-1564-</b> 22 | COX            | 1000.0        | 20                 | 0 01           | ,02     |                |         | -           | 11 CHDE         | XXC      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-23         | LOX            | 14.7          | ŝ                  | 00 00          | 104     |                |         | 4           | 16 CHDC         | XXO      |
| E-617-9            | PARKER SEAL/LINS ANGLS |                 | 69-1564-24         | LOX            | 14.7          | ð.<br>N            | 00 0           | ,04     |                |         | 4           | 16 CHUC         | XXC      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-3          | Š              | 50.0          |                    |                | 324     | 324            |         | 0           | 13 CHDC         | X        |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-4          | X09            | 100.0         |                    |                | 329     | 329            |         | ٥           | 13 CHDC         | XXC      |
| g-617-P            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-5          | Š              | 500.0         |                    |                | 287     | 287            |         | ٥           | 13 CHO          | XXQ      |
| E-61~0             | PARKER SEAL/LOS ANGLS  |                 | 69-1564-6          | X O S          | 1000.0        |                    |                | 270     | 270            |         | <u>م</u>    | 13 CHDC         | X        |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-7          | ŝ              | 1500.0        |                    |                | 273     | 273            |         | 0           | 13 CHDC         | XXO      |
| E-617-9            | PARKER SEAL/LOS ANGLS  |                 | 69-1564-8          | COX<br>COX     | 2000.0        |                    |                | 284     | 284            |         | 0           | 13 CHDC         | XXG      |
| EA-40 ADHESIVE     | SNDDTH-DN MFG CO.      | • 0050          | SP-6918            | Š              | 5.0           | 1000               |                | 638     | 666N           |         | 7           | 13 ABX)         | ×××      |
| EA-40 ADHESIVE     | SHOOTH-ON NFG CO.      | • 0050          | SP-6918-1          | 60 X           | 25.0          |                    |                | 659     | 675            |         | 0           | 13 ABX)         | XXX      |
| EA-40 ADHES IVE    | SHOOTH-ON MFG CO.      |                 | SP-6918-10         | š              | 1500.0        |                    |                | 304     | 304            |         | c           | 13 ABX)         | XXX      |
| E4-40 ADHESIVE     | SNOOTH-ON MFG CO.      |                 | SP-6918-11         | 60 X           | 50.0          |                    |                | 521     | 521            |         | ٥           | 13 ABX)         | XXX      |
| EA-40 ADMESIVE     | SMODTH-ON RFG CO.      |                 | 5P-0918-12         | ž              | 500.0         |                    |                | 403     | 465            |         | ٥           | 13 ABX)         | XXX      |
| EA-40 ADHESIVE     | SMOOTH-ON NFG CD.      |                 | SP6918-13          | COX            | 2000.0        |                    |                | 259     | 259            |         | ۵           | 13 ABX)         | XXX      |
| EA-40 ADHESIVE     | SHODTH-ON NFG CO.      |                 | SP-6918-14         | Š              | 100.0         |                    |                | 507     | 507            |         | ۵           | 13 ABX)         | XXX      |
| EA-40 ADHES IVE    | SMOOTH-ON MFG CO.      |                 | SP-6918-15         | COX            | 1000.0        |                    |                | 304     | 304            |         | 0           | 13 ABX)         | XXX      |
| EA-40 ADHESIVE     | SWOOTH-ON MFG CO.      | •0050           | SP-6918-2          | ŝ              | 50.0          |                    |                | 637     | 671            |         | ٥           | <b>13 ABX</b> ) | XXX      |
| EA-40 ADHESIVE     | SM0074-0N MFG CO.      | • 0050          | SP-6918-3          | COX            | 62.0          | 1000               |                | 663     | 669N           |         | ۵           | 13 ABX)         | XXX      |
| EA-40 ADHESIVE     | SMODTHON NFG CO.       | • 0050          | SP-6918-4          | Š              | 165.0         |                    |                | 669     | 699            |         | ٥           | 13 ABX)         | XXX      |
| EA-40 ADHESIVE     | SMOOTS-02 NFG CO.      | -0050           | SP-6918-5          | CUX<br>CUX     | 3500.0        |                    | 00             | 10/     |                |         | 4           | 10 ABXJ         | XXX      |
| EA-40 ADHESIVE     | SH001H-DN 2FG CO.      | • 00 50         | SP-6918-6          | ŝ              | +000.0        |                    | g              | 104     | •              |         | 4           | IO ABX)         | ×××      |
| EA-40 ADHESIVE     | SNDDTH-DN MFG CO.      | .0050           | SP-6918-7          | XOS            | 4500.0        |                    | 40             | ,04     |                |         | 0           | IO ABX)         | XXX      |

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|--------------------------------------------|-----------------------|-----------------|---------------|---------------|-----------------|--------------|-----------------|---------|--------------|-------------------|--------|------------|--------------------------------------|-----------------------------------------------------------------------------------------------|
| MFGR S DESIGNATION                         | MANUFALTURER          | SPEC.<br>THICK. | TEST RPT NO.  | TES T<br>ENVR | TE ST<br>PRE SS | TEST<br>TEMP | I MP T<br>E NER | NO UF I | LASH<br>CINT | FIRE PE<br>PT []] | PUP W1 | 8 I<br>I I | 40<br>10                             | л.<br>Об                                                                                      |
| EA-40 ADKESIVE                             | SMDDTH-DN MFG CO.     | •0050           | SP-6918-8     | Š             | 250.0           |              | 200             | 04/04   |              |                   |        | 0          | I AB                                 | XXXX                                                                                          |
| EA-40 ADHESIVE                             | SNODTH-DV MFG CO.     | • 0050          | SP-6918-9     | 60 X          | 0•00¢           |              | 200             | 01/01   |              |                   |        | 1 0        | 1 A B                                | XXXX                                                                                          |
| EASY FLOW 45                               | HANDY AND HARMON      |                 | 71-2528       | GOX           | 1500.0          |              | 50              | 00/04   |              |                   |        | A 1        | L FK                                 | ME MC                                                                                         |
| EASY FLOW 45                               | HANDY AND HARMON      |                 | 71-2528-1     | 60X           | 1500.0          |              |                 | 00/07   |              |                   |        | 4          | ж<br>С                               | MRMC                                                                                          |
| EAZY-FLO 45                                | GAC '                 |                 | 70-2138       | Š             | 2000.0          |              |                 | 00/04   |              |                   |        | 4          | ۲.<br>م                              | XXX                                                                                           |
| EAZY-FLO 45                                | GAC                   |                 | 70-2138-1     | A-50          | 754.0           | 496          |                 |         |              |                   |        |            | ωu<br>X u<br>X u                     |                                                                                               |
| EALT-FLU 45<br>Er-e-1-4 filt viet          | DUCHS COMPANY CLUCK   |                 | 7-0612-01     |               |                 | 100          | 5               | 20100   |              |                   |        |            |                                      |                                                                                               |
| EC-9-1-N CLASS TARNE                       | CHERS CUMBING FIBELS  |                 | 70-2093-1     |               | 1500-0          |              | D<br>r          | 40/00   |              |                   |        | 4 4        | 10                                   | X X (19)                                                                                      |
| EC-9-1-N GLASS YARN                        | DWENS CORNING FIBGLS  |                 | 70-2093-2     | x OS          | 1000.0          |              |                 |         | 9999         | ngoa              |        | 4          | 5<br>6<br>7<br>6<br>7<br>6<br>7<br>6 | GDXX                                                                                          |
| ECCD-STOCK R-19                            | EMERSON CUMING INC    |                 | 71-2762       | Š             | 150.0           |              |                 |         | 431          | 431               |        | 0          | 3 FJ                                 | BYXX                                                                                          |
| ECC0-STOCK R-19                            | EMERSON CUMING INC    |                 | 71-2762-1     | 60 X          | 250.0           |              | 50              | 40/00   |              |                   |        | 4 ·        | 1.5                                  | BYXX                                                                                          |
| ECCO-STOCK R-19                            | ERERSON CUMING INC    |                 | 71-2762-2     | ž             | 250.0           |              |                 | 00/04   |              |                   |        | 4          | 0                                    | B X X X                                                                                       |
| ECC OFDAM                                  | ENERSON CUNING INC    |                 | 70-1953       | A-50          | 401.0           | 505          |                 |         |              |                   |        |            | 5                                    | C J X X                                                                                       |
| ECCOFORM                                   | EXERSING CULTURE INC  |                 | 70-1953-1     | A-50          | 171.0           | 515          |                 |         | f            | /                 |        | - a        | 50                                   |                                                                                               |
| ELAST 24 EMS-338                           | AIRESEARCH INDS DIV   |                 | 71-2825       | 20X           | 100.0           |              |                 |         | 114          | 114               |        |            | 60<br>5                              | UFXX<br>XX<br>XX                                                                              |
| ELASTOMER ENS-33R                          | FIRESEARCH INDST DIV  |                 | 71-2825-1     | 20X           | 250.0           |              | 50              | 00/07   |              |                   |        | <.         | 55                                   |                                                                                               |
| ELASTOMER EMS-338                          | AIRESEARCH INDST DIV  |                 | 2-6282-11     | X09           | 0.042           |              |                 | 00/04   |              |                   |        | 4 4        |                                      |                                                                                               |
| ELASTOMER SVSK BI370-1                     | HANILTEN STANDARD     |                 | 71-2289       | 60X           | 2000-0          |              |                 | 40/00   |              |                   |        | ۹.<br>۹.   | 200                                  | <br>                                                                                          |
| ELASTOWER SVSK 81370-1                     | HAMILTON STANDARD     |                 | 71-2289-1     | 20X           | 0°0005          |              |                 | 10/10   |              |                   |        | - 4        |                                      | x x 4 1 1                                                                                     |
| ELASTOPER SVSK BI370-1                     | HARIETON STANDARD     |                 | 71-2289-2     | x ng          | 0.000           |              | 04              | 40/00   | 5.75         | 363               |        |            |                                      | 2 X X Z Z Z                                                                                   |
| ELASTOMFR SVSK 81370-7                     | HAPILION STANDARD     |                 | 71 2200 2     | 202           | 1500.0          |              |                 |         | 5,00         | 6767              |        | 2 4        |                                      | <                                                                                             |
| ELASIUMER SYSK 813/0-1<br>Electrosity 1000 | RAFILION SIANUAKU     |                 | 11-2249-4     |               | 00000           |              |                 | 70700   | C<br>C<br>T  | C<br>X<br>4       |        |            |                                      | < 4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 |
| ELECTROFILM 1000                           |                       |                 | 70-1976-1     |               |                 | 1000         |                 |         | 0007         | 0000              |        | ( <        |                                      |                                                                                               |
| CLEUINUTILY 1000                           |                       |                 | 70-1876-10    |               | 1500.0          |              |                 | -       | 404          | 404               |        | ۱ <u>۲</u> |                                      | E IFM                                                                                         |
| FLECTROFILM 1000                           | ELECTROFILM INC.      |                 | 70-1876-11    | x de          | 2000-0          |              |                 |         | 59 A         | 598               |        |            |                                      | 1<br>1<br>1<br>1<br>1<br>1<br>1                                                               |
| ELECTROFILM 1000                           | ELECTROFILM INC.      |                 | 70-1876-12    | 60X           | 950.0           |              |                 |         | 450          | 450               |        | 6          | 3 DA                                 | LC JFM                                                                                        |
| EL CURDFILM 1000                           | ELECTROFILM INC.      |                 | 70-1876-2     | хоу<br>С      | 165.0           | 1000         |                 | -       | 6660         | 9999              |        | 4          | AU E                                 | M J L H                                                                                       |
| ELECTROFILM 1000                           | ELECTROFILM INC.      |                 | 70-1876-3     | X 0 9         | 0.004           |              |                 |         | 413          | 413               |        | 0          | 3 04                                 | M J P P                                                                                       |
| ELECTROFILM 1000                           | ELECTROFILM INC.      |                 | 70-1876-+     | õ             | 25.0            | 1000         |                 |         | 0067         | 056Z              |        |            | AU EI                                |                                                                                               |
| ELECTROFILM 1000                           | ELECTROFILM INC.      | • 0050          | 70-1876-4     | 60 X          | 1500.0          |              | 20              | 70/00   | 0000         | 0004              |        | 4 4        |                                      |                                                                                               |
| ELECTRUFILM 2000                           | ELECIKUTICE INC.      |                 | C18/01-01     | 100           |                 | 0001         |                 | -       | 5555         |                   | -      | 4 -        |                                      |                                                                                               |
| ELECTROFILE JOOD                           | ELECTROFICE INC.      |                 | 70-1876-0     | x ng          |                 | 1000         |                 |         | 0000         | 00002             |        | -<br>-     |                                      |                                                                                               |
|                                            |                       |                 | 70-187/-8     |               | 200-0           | 2            |                 |         | 581          | 581               |        | 00         |                                      | E JFN                                                                                         |
| CLECTROFILM 1000                           | FLACTROFILM THC.      |                 | 70-1576-9     | ŝ             | 1000.0          |              |                 |         | 621          | 621               |        | 0          |                                      | E J F                                                                                         |
| 68/-108                                    | ALRESTARCH INDET DIV  |                 | 5. 1-0247     | ž             | 1565.0          |              |                 |         | 495          | 495               |        | 6          | 13 86                                | CCDP                                                                                          |
| EMS-342                                    | ARESEARCH INDST DIV   |                 | 67-0794       | ŝŝ            | 1087.0          |              |                 |         | 458          | 43R               |        | 0          |                                      | SCK S                                                                                         |
| EAS-342                                    | AIRESEARCH INDST DIV  |                 | 67-0794-1     | 60 X          | 1565.0          |              |                 |         | 492          | 264               |        | e          | 13 00                                | <b>CKXX</b>                                                                                   |
| E#S-342                                    | AIRESEARCH INDST DIV  | .0750           | 67-0794-2     | Š.            | 1500.0          | _            |                 | 01/02   |              |                   |        | -          | 00 01                                | S S S                                                                                         |
| E#5-342                                    | AIRESEARCH INDST DIV  | +0750           | 67-0794-3     | 60X           | 1500-0          |              | 50              | 40/00   |              |                   |        | 4          | 32                                   | 5<br>5<br>5<br>5                                                                              |
| EHS-342                                    | AIRESEARCH INDST DIV  | •0750           | 67-0794-4     | X 09          | 250•U           | -            |                 | 40/00   |              |                   |        | ۹ (        | 52<br>20                             | 222                                                                                           |
| EMS-363                                    | AIRESE ARCH INDST DIV | 0410.           | SP-6429       | 603           | 0.42            |              |                 |         | 071          | 164               |        | 2          | 5                                    | 107                                                                                           |

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| MFGR S DESIGNATION | MANJFACTURER   |                 | SPEC.<br>THICK. | TEST RPT NG.             | ENVR        | TEST<br>PRESS | TEST IN<br>TEMP EN | P1 NO O     | F FLASH | i FIRF<br>∙ PT | PROP WT<br>DIST LOSS | а н<br>н н  | HATL<br>CODE |
|--------------------|----------------|-----------------|-----------------|--------------------------|-------------|---------------|--------------------|-------------|---------|----------------|----------------------|-------------|--------------|
| EMS-363            | AIRE SE ARCH I | NDST DIV        | •0750           | SP-6979-1                | SOX         | 50.0          |                    |             | 606     | ΰ06            |                      | 0           | 00COX        |
| EMS-363            | AIRESEARCH I   | MOST DIV        | •0750           | SP-6929-10               | COX         | 3000.0        |                    | 04/0        | t.      |                |                      | 010         | 00CQX)       |
| EMS363             | AIRESEARCH I   | NDST DIV        | •0750           | SP-6929-11               | ×09         | 500.0         | 20                 | 0/00 0      | -       |                |                      | A 11        | 00CQX        |
| ENS-363            | AIRES! ARCH I  | VIG TSON        | .0750           | SP-6929-12               | COX<br>COX  | 1000.0        | 20                 | 0/00 0      | -       |                |                      | A 11        | 00000        |
| EMS-363            | AIRESEARCH I   | <b>NDST DIV</b> | •0570•          | SP-6929-13               | ×09         | 1500.0        | 20                 | 0/00 0      | 1       |                |                      | II V        | 00000        |
| EMS-363            | ATRESEARCH I   | VIC TON         | •0.750          | SP-6929-14               | X03         | 2000.0        | 20                 | 0/00 0      | ÷       |                |                      | A 11        | 00000        |
| ENS-363            | AIRESEARCH 1   | NDST LIV        |                 | SP-6929-15               | X 09        | 150.0         |                    |             | 373     | 373            |                      | 0 13        | 00CQX        |
| ENS-363            | AIRESEARCH I   | VIC TSON        |                 | SP-6929-16               | 60X         | 500.0         | ŝ                  | 0/00 0      | 4       |                |                      | A 11        | 00000        |
| E#S-363            | ALRESEARCH I   | NDST DIV        |                 | SP-6929-17               | ×09         | 500.0         |                    | 0/10        | -       |                |                      | 1 10        | DOC 0X)      |
| EMS-363            | AIRESEARCH I   | NDST DIV        |                 | SP-6929-18               | GOX         | 1500.0        | Ś                  | 0/00 0      | +       |                |                      | A 11        | 00CQX)       |
| ENS-363            | AIRESEARCH I   | NDST DIV        |                 | SP-6929-19               | š           | 1500.0        |                    | 0/10        | 4       |                |                      | 1 10        | CX0000       |
| EMS-363            | ATRESFARCH I   | VIG TOW         | •0750           | SP-6929-2                | 20X         | 62.0          |                    |             | 566     | 676            |                      | 0           | 00C(X)       |
| ER3-303            | ALRESEARCH I   | NDST DIV        |                 | 5P-6929-20               | Š           | 1000.0        |                    |             | 291     | 291            |                      | 0 13        | . DOC 0X)    |
| EMS-363            | AIRESEARCH     | NDST DIV        |                 | SP-6929-21               | GOX         | 500.0         |                    |             | 211     | 211            |                      | 0           | 100COX       |
| ERS-363            | ATRESEARCH     | NDST DIV        |                 | SP-6929-22               | 8           | 20.02         |                    |             | 0 ¢2    | 290            |                      | 0 13        | 00C0X        |
| EMS-363            | ATRESEARCH I   | NOST DIV        |                 | 5P-6929-23               | 60X         | 100.0         |                    |             | 29b     | 286            |                      | 0 13        | 000000       |
| FRS-363            | AIRESEARCH     | NDST DIV        |                 | SP-6929-24               | Š           | 1000.0        |                    |             | 345     | 345            |                      | 0           | 10C 9X)      |
| EPC-3/3            | AIRESEARCH I   | NOST DIV        |                 | SP-6929-25               | 60 X        | 1500.0        |                    |             | 201     | 201            |                      | 0 13        | 00000        |
| EMS-363            | AIRE SEARCH I  | NDST DIV        |                 | SP-6929-26               | Š           | 2000.0        |                    |             | 223     | 223            |                      | 0 13        | CX 1 000     |
| ENS-363            | AIRESEARCH I   | NOST DIV        | • 0750          | SP-6929-3                | X OS        | 165.0         |                    |             | 640     | 643            |                      | 0 13        | CX0000       |
| E#5~363            | AIRESEARCH     | NDST DIV        | •0150           | SP-6929-4                | Š           | 200.0         |                    | 0/ <b>0</b> | 4       |                |                      | A 10        |              |
| EMS-363            | AIGESEAKCH I   | NO 1 SON        | •0750           | 3P69,95                  | 203         | 500.0         |                    | 01/0        | ~       |                |                      | 0           | 00C0X        |
| EM3-303            | ALRESEARCH I   | NUST DIV        | •0120           | SP-6929-6                | Š           | 1000.0        |                    | 0/10        | N       |                |                      | 010         | 00000        |
|                    | AIRESEARCH     | VIG ISON        | •0750           | SP-6929-7                | EOX         | 1500.0        |                    | 0/10        |         |                |                      | 0           | 90C 0X)      |
|                    | AIRESEARCH I   | VIO TSON        | •0150           | SP-6929-B                | Š           | 2000.0        |                    | 01/0        | ~       |                |                      | 010         | 00000        |
| EMS-363            | AFRESEARCH     | NDST DIV        | •0750           | SP-6929-9                | X<br>C<br>C | 2500.0        |                    | 0/10        | ~       |                |                      | 01 0        | 0000         |
| ERS-382            | ALRESEAR       | NDST 014        |                 | SP-6926                  | Š           | 20.0          |                    |             | 572     | 572            |                      | 0 13        | ×100         |
|                    | ATRESEARCH I   | VIG ISON        |                 | SP-6926-1                | 203         | 62.0          |                    |             | 567     | 606            |                      | 0           | 000 XX       |
|                    | AIRESEARCH I   | VID ISON        | • 0750          | SP-6926-10               | Š           | 500.0         | 4 <b>1</b> 1 1     | 0/00 0      |         |                |                      | 4           | CX 1 000     |
|                    |                | VI0 150M        | • 0 7 5 0       | 5P-6926-11               | Š           | 750.0         | <b>Ω</b> 4         |             |         |                |                      | 4           |              |
|                    | ATACKEAPCH T   | ALC LON         | 00100           | 51-0260-15<br>58-4024-13 | ŝ           |               | ^ u                |             |         |                |                      |             |              |
| ERS-382            | AIRESEARCH     | VIC TON         | 0150            | SP-6926-14               | Š           | 1500.0        | <u>ה ור</u>        |             |         |                |                      |             |              |
| EMS-362            | AIRESEARCH I   | NDST DIV        | .0750           | SP-5926-15               | 20X         | 100.0         | •                  | 0/00        |         |                |                      |             |              |
| EKS-382            | AIRE SEARCH I  | VIO TON         | .0750           | SP-6976-16               | ×09         | 200.0         |                    | 0/00        | . ~4    |                |                      | A 10        | CX 2000      |
| EMS-382            | AIRESEARCH I   | NDST DIV        | .0750           | SP-6926-17               | 60 X        | 300.0         |                    | 0/00        | _       |                |                      | A 10        | CX1000       |
| ENS-382            | ATRE SEARCH I  | NDST 01V        | •0150           | SP-6326-18               | ž           | 400.0         |                    | 0/00        | 7       |                |                      | A 10        | CX1000       |
| ENS-382            | AIRESEARCH I   | NDST DIV        | •0750           | SP-6926-19               | 60X         | 500.0         |                    | 0./00       | 4       |                |                      | A 10        | 000 LXJ      |
| EMS-382            | AIRE SEARCH 1  | NDST DIV        |                 | SP-6924-2                | Š           | 435.0         |                    |             | 572     | 572            |                      | 0 13        | ×1000        |
| EMS - 382          | AIRESEARCH     | VID 150N        | • 0150          | 5P-6926-20               | COX<br>COX  | 1000.0        |                    | 0/10        | ~       |                |                      | 0 10        | 000 IX       |
|                    | AIRESEARCH     | NDST DIV        | •0750           | SP-6926-21               | CDX         | 1500.0        |                    | 04/0        | t       |                |                      | 010         | 0001X)       |
|                    | AIRESEARCH I   | VIO ISON        |                 | 5P-6926-22               | X 00        | 7 4 1         | ō, '               | 01/0        |         |                |                      | 1           | CX 1000      |
|                    | A THE SEARCH   | ALD ISOM        | •0120           | SP-0920-3                | XOS         | 20.0          |                    | 0/00 0      | ł       |                |                      | <b>×</b>    | 000 X 1000   |
| 542-325            | AIRESEARCH I   | NOST DIV        | •0150           | SP-6926-4                | 60X         | 100.0         | ŝ                  | 0/00 0      | ÷       |                |                      | <b>11 A</b> | 0001X)       |

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|                                                        | MATERIAL 1                                            | FEST DATA       | BY MANUFACTUR | - s           | DE SI GNAT    | A NOI        | 505            | JL JAN | 72             |             |         | PAG           | E 14          |
|--------------------------------------------------------|-------------------------------------------------------|-----------------|---------------|---------------|---------------|--------------|----------------|--------|----------------|-------------|---------|---------------|---------------|
| MFGR 5 DESIGNATION                                     | MAMUFACTURER                                          | SPEC.<br>THICK. | TEST RPT NO.  | TES T<br>ENVR | TEST<br>PRESS | 16ST<br>TEMP | I MP T<br>ENER | NO OF  | FLASH<br>POINT | FIRE I      | PROP WT | я<br>Т 1<br>Т | AATI.<br>CODE |
| ENS-362                                                | AIRESEARCH INDST DIV                                  | .0750           | SP-6::26-5    | Š             | 150.0         |              | 20             | 00/04  |                |             |         | 11            | 000 I X X     |
| EMS-392                                                | AIRESEARCH INDST DIV                                  | .0750           | SP-6926-6     | GOX           | 200.0         |              | 50             | 00/04  |                |             |         | A 11          | 000 I XX      |
| EMS-342                                                | AIRESEARCH INDST DIV                                  | .0750           | SP-6926-7     | ž             | 40.0          |              | 200            | 10/10  |                |             |         | 0 11          | 2001 XX       |
| E#S-382                                                | ATRESEARCH INDST DIV                                  | .0750           | SP-6926-8     | 60X           | 100.0         |              | <u>0</u> 0     | 01/01  |                |             |         | 0 11          | D001XX        |
| EMS-382                                                | AIRESEARCH INDST DIV                                  | .0750           | SP-6926-9     | ŝ             | 1500.0        |              | 200            | 01/01  |                |             |         | 0 11          | XXJOCO        |
|                                                        | INDIANA GENERAL CORP                                  |                 | 71-2269       | ×03           | 1500.0        |              | 50             | 00/04  |                |             |         | A 11          | EXMONI        |
| ENDOX 1                                                | INDIANA CENERAL CORP.                                 |                 | 71-2269-1     | ŝ             | 1500.0        |              |                | 00/04  |                |             |         | A 10          | EXMONT        |
| EPIBOND 123/MARDNER 9                                  | BI FURANE PLASTICS INC.                               |                 | 70-1768       | X09           | 1565.0        |              | 1              |        | 476            | 476         |         | 0 13          | AEBGGS        |
| EPISOND 123/MAKDNER 95<br>EBIEDND 122/HARDNEB 05       | 31 FURANE PLASTICS INC.                               | • 0020          | 70-1768-1     | Š             | 2000.0        |              | 5              | \$0/00 |                |             |         | 11<br>V       | AEBGGS        |
| ETIBUMU 122/MARMER 9:                                  | 31 FURANE PLASIICS INC.<br>32 Eurane di Actific Inc.  |                 | 70-1768-10    | Xnu           | 1500.0        |              |                | 20/10  |                |             |         | 1 10          | AFBGGS        |
| EPTARNA 123/MARANER 0                                  | AL FURNME FEADILED INC.                               |                 | 21-3921-02    |               |               |              |                | 20/10  |                |             |         | - +           | ALGOGUA       |
| EPIBOND 123/MARDMER 9                                  | 31 FURANE PLASTICS INC.                               |                 | 70-1768-13    | ŝ             | 3500.0        |              |                | 10/10  |                |             |         |               | AFRGGS        |
| EPIBOND 123/HARDNER 93                                 | <b>31 FURANE PLASTICS INC.</b>                        |                 | 70-1768-14    | GGX           | 4500.0        |              |                | 01/01  |                |             |         | 1 10          | AEBGGS        |
| EFIBOND 123/HARDNER 9                                  | <b>31 FURANE PLASTICS INC.</b>                        |                 | 70-1768-15    | Š             | 500.0         |              | 50             | 00/04  |                |             |         | A 11          | AEBGGS        |
| EPIBUND 123/HARDNER 93                                 | 31 FUPANE PLASTICS INC.                               |                 | 70-1758-16    | 60 X          | 500.0         |              |                | 00/04  |                |             |         | A 10          | AEBGGS        |
| EPIBOND 1.23/HARDNER 9                                 | 31 FURANE PLASTIC INC.                                |                 | 70-1768-17    | ŝ             | 1500.0        |              | 50             | 00/04  |                |             |         | A 11          | AEBGUS        |
| EPIBOND IZ3/HARDNER 9                                  | SI FURANE PLASTICS INC.                               |                 | 70-1768-18    | X 00          | 1500.0        |              |                | 10/10  |                |             |         | 1 10          | AEBGGS        |
| C 1200 172 MMK/021 MMB123                              | 31 FURANE PLASIELS INC.                               |                 | 1-1/68-14     | ŝ             | 22.0          |              |                |        | 659            | 659         |         | 0 13          | AEBGGS        |
| EPIBUND 123/HARDNER 93                                 | BI FURANE PLASTICS INC.                               | • 0050          | 70-1768-2     | X 09          | 2500.0        |              | 50             | 01/02  | I              |             |         | T 11          | AEBGGS        |
| EPISOND 123/HARDNER 9                                  | 31 FURAME PLASTICS INC.                               |                 | 70-1768-20    | ŝ             | 50.0          |              |                |        | 655            | 655         |         | 0 13          | AEBGGS        |
| EF LEUNU 123/ HANUNEK VI                               | SI FUKANE PLASIICS INC.                               |                 | 12-8911-01    | 203           | 150.0         |              |                |        | 533            | 533         |         | 0 13          | AEBGGS        |
| EPIBUND 123/HARDNER 9                                  | 3. FURAME PLASTICS INC.                               |                 | 70-1768-22    | ŝ             | 1000.0        |              |                |        | 999            | 399         |         | 0 13          | AEBGGS        |
| EPICUND 123/HARDNER 9                                  | 31 FURAME PLASTICS 19C.                               |                 | 70-1768-23    | 201           |               | -            | 200            | 00/04  |                |             |         | A 16          | AERGGS        |
| CTICKING 123/HADNED 5                                  | DI FURANE FLADIICO INCO<br>Di Elibare di Active inc   |                 | 70-1760-24    |               |               | •            | 202            | 40/00  |                |             |         | A 16          | ALPGGS        |
| EPIDUNU 123/HAKUNEN Y.<br>Epidunu 123/HAKUNEN Y.       | DI FURANE PLADILO INC.<br>Di Bijeane di Actifo Inc.   |                 | 20-1768-25    | 205           | 1000.0        | -            | 0              | 00/04  |                |             |         | 4             | AFEGGS        |
| FPTROND 123/HARDNER 9                                  | 31 FURANE FLASTICS INC.                               | .0050           | 70-1768-20    | X X           | 3000-0        | •            |                | 00/04  |                |             |         |               | ATHGUS A      |
| PILE PIEDNO 123/HAP.ONER 9                             | 31 FURANE PLASTICS INC.                               | .0050           | 70-1768-4     | Ň             | 500.0         |              | 200            | 04/04  |                |             |         |               | AFRGGS        |
| EP160N0 123/44401 54 "3                                | <b>31 FURANE PLASTICS INC.</b>                        | • 0050          | 70-1768-5     | COX<br>GOX    | 1000.0        |              | 000            | 10/10  |                |             |         | T 11          | AEBGGS        |
| EFIBOND 123/ # 101 1                                   | 11 FURANE PLASTICS INC.                               | •0050           | 70-1768-6     | Š             | 2000.0        |              | 200            | 10/10  |                |             |         | 1 1           | AEBGGS        |
| EPIBOND 123/HALLY                                      | OF FURANE PLASTICS INC.                               | . 0050          | 70-1768-7     | X 0 9         | 3000.0        |              | 000            | 10/10  |                |             |         | 1             | AEBGGS        |
| EPIDUMD 1227MUM 101 101 101 101 101 101 101 101 101 10 | 31 FURANE LEASTICS INC.<br>21 Fueame diagrafics and . | 0000            | 70-1748-8     | ŝ             | 0.000         | •            | 200            | 10/10  |                |             |         |               | AEBGG         |
| EP180ND 123/MAKUNGA 9                                  | 31 FURANE PLASTICS INC.                               | . (050          | 70-2208       | x ng          | 1500.0        |              |                | 20/10  |                |             |         |               | AFAGGS        |
| EPIBOND 123/HARDNSR 9                                  | 31 FURANE PLASTICS INC.                               |                 | 70-2200 1     | COX           | 1000.0        |              |                |        | 450            | 420         |         | 013           | AENGGS        |
| EPTBOND 123/HARDNER 9                                  | <b>BI FURANE PLASTICS INC.</b>                        |                 | 70-2208-2     | Š             | 1000.0        |              |                |        | 566            | 564         |         | 0 13          | AEBGGS        |
| EPON 6/CAT A                                           | SHELL CHEMICAL CURP                                   |                 | 70-1774       | х<br>С<br>С   | 1500.0        |              | 50             | 00/07  |                |             |         | <b>A</b> 11   | AEBLGS        |
| EPOK B/CAT A                                           | SHELL CHEMICAL CORP                                   |                 | 70-1774       | õ             | 1500.0        |              |                | 01/03  |                |             |         | 1 10          | 4E 9L GS      |
| EPON S/CAT A                                           | SHELL CHEMICAL CORP                                   |                 | 70-1774       | 60X           | 25.0          |              |                |        | 657            | 657         |         | 0 13          | AEBLGS        |
| EPON B/CAT A                                           | SHELL CHEMSCAL CORP                                   |                 | 10-1774-1     | X OS          | 50.0          |              |                |        | 661            | 661         |         | 0 13          | AEBLGS        |
| EPUN B/CAT A<br>Fork b/Cat A                           | SHELL CHEMICAL CORP<br>Sheii Chemical Corp            |                 | 70-1774-10    | Ň             | 950.0         |              |                |        | 290<br>277     | 290         |         | 013           | AEBLGS        |
| EPON B/CAT A                                           | SHELL CHENICAL CORP                                   |                 | 70-1774-12    | 60X           | 5000.0        |              | 50             | 01/02- | -<br>;         | -<br>-<br>1 |         | 11            | AEBLGS        |

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|-----------------------------|---------------------------------------------------------|----------------------|------------|--------------|---------------|------|------------|----------------|----------------|------------------------------|------|----------|------------|
| MFGA S DEJIGNATION          | MANUFACTURER                                            | SPEC. TEST<br>THICK. | RPF NO.    | TEST<br>ENVR | TEST<br>PRESS | TEAP | I MP T     | ND DF<br>REACT | FLASH<br>POINT | FIRE PRUP WT<br>PT DIST LOSS | α    | C MATL   |            |
| EPON B/CAT A                | SHELL CHENICAL CORP                                     | 1-02                 | 5-422      | XQU          | 4500-0        |      | 50         | 40700          |                |                              | -    | 1027     | L          |
| EPON B/CAT A                | SHELL CHEMICAL CORP                                     | 196                  | 774-14     | COX          | 0.008         |      |            | 10/10          |                |                              | ( )  |          |            |
| CHON BICAT                  | SHELL CHEMICAL CORP                                     | 1-2                  | 774-15     | ŝ            | 0000          |      |            |                |                |                              | - 1- |          | • •        |
| FPOW B/CAT A                | SHELL CHEMICAL CORP                                     | -1-0-                | 774-16     | GOX          | 500.0         |      | -          | 90/00          |                |                              |      |          | <b>.</b> . |
| EPON B/CAT A                | SHELL CHEMICAL CORP                                     | 1-0-1                | 774-17     | Š            | 0000          | 263  |            |                |                |                              |      |          |            |
| EPON S/CAT A                | SHELL CHEMICAL CORP                                     | -1-04                | 774-18     | 60 X         | 50.0          | •    |            |                | 524            | 524                          | 0    |          | • •        |
| EPCH S/CAT A                | SHELL CHENICAL CORP                                     | 1-04                 | 774-2      | ŝ            | 62.0          |      |            |                | 665            | 682                          | 2    |          |            |
| FOW B/CAT A                 | SHELL CHEMICAL CORP                                     | 1-02                 | 774-3      | 60 X         | 100.0         |      |            |                | 483            | 483                          |      |          |            |
| ETUN S/LAI A                | SHELL CHEMICAL CUP                                      | קר<br>ג              | 774-4      | Š            | 165.0         |      |            |                | 664            | 665                          | c    | 3 AFBLO  |            |
|                             | SHELL CHEMICAL CPAP                                     | 1-02                 | 774-5      | GOX          | 500.0         |      |            |                | 352            | 352                          | 0    | 3 AFBLG  |            |
| EPUM B/CAL A                | SVELL CHEMICAL CORP                                     | .1-02                | 774-6      | ž            | 0.009         |      |            |                | 333            | 333                          | 0    | 3 AFBLG  |            |
| EPUW B/CAL A                | SHELL CHEMICAL CORP                                     | 1-0-1                | 774-7      | COX O        | 0.0001        |      |            |                | 343            | 343                          | 0    | 3 AEBLG  |            |
|                             | SPELL CHEMICAL CORP                                     | 20-1                 | 7748       | ŝ            | 1500.0        |      |            |                | 167            | 291                          | 0    | 3 AEBLG  |            |
| EPON B/CAL A                | SHELL CHEMICAL CORP                                     | -0-                  | 774-9      | ž            | 0000          |      |            |                | 287            | 287                          | 0    | 3 AEBLGS |            |
| EDAY ELGADE                 | FIGENITE WEST COAST CORP                                | 71-22                | 265        | Š            | 1500.0        |      | 20         | 90/00          |                |                              | <    | A BABCK  |            |
| COUL E-9403<br>Conve E-0406 | TIDERIIL WEST CUASI CURP                                | 71-2                 | 265-1      | E CX         | 1500.0        |      | Ū          | 0/04           |                |                              | <    | O BABGXX |            |
| EPUXY E-9405                | FIGENITE WEST COAST CORP                                | 71-2                 | 265-10     | š            | 1000.0        | 271  |            |                |                |                              | ٥    | 5 BABGX) |            |
| EPOLY E-9405                | FIBERITE WEST COAST CORP                                | 11-2                 | 265-11     | 60 x         | 25.0          |      |            |                | 766            | 766                          | 0    | 3 HABGXX |            |
| EDAY E-0405                 | FIGERITE WEST COAST CORP<br>STREET TE WEST COAST COAST  | 2-12                 | 265-12     | Š            | 50.0          |      |            |                | 650            | 650                          | ۵    | 3 BABGX) |            |
| ETUXI E-3403                | FIDERIE WEST CUAST CORP<br>Ethebite west solst sons     | 71-2                 | 265-13     | X 00         | 50.0          |      |            |                | 831            | 831                          | 5    | 3 BABGXX |            |
|                             | ETREDITE VEST CURSI CURSI<br>Etredite vest frast ford   |                      | 41-692     | K S          | 100.0         |      |            |                | 530            | 530                          | 0    | 3 BABGA) |            |
| EPDXY E-9405                | FIREFIE MEST COAST CURP                                 |                      | 200-10     |              | 200.0         |      |            |                | 534            | 534                          | 0    | 3 BABGXX |            |
| EPORY E-9405                | FIRENTE MEET TOART TOAR                                 |                      |            |              | 0.000         |      |            |                | 232            | 232                          | -    | 3 BABGX1 |            |
| E90XY E-9405                | FIDERITE WEST COAST CORP                                | 2-12                 |            |              |               |      | 0          |                | 292            | 232                          | 2.   | 3 BABGXX |            |
| EPOXY E-9405                | FIBERITE NEST COAST CORP                                | 20-12                | A5-7       |              |               |      |            |                | 300            | 700                          | < (  | I BABGX  |            |
| EPOXY E-9405                | FIBERITE WEST COAST CORP                                | 71-23                | 202-3      |              | 0.000         |      |            | 10/10          | 643            | 667                          | 5    |          |            |
| EPOXY E-9405                | FIBERITE WEST COAST CORP                                | 71-22                | 265-4      | COX          | 500.0         |      |            | 10/10          |                |                              |      |          |            |
| EPOXY E-9405                | FIDERITE WEST COAST CORP                                | 1-23                 | 265-5      | Š            | 0.000         |      |            | 10/10          |                |                              |      |          |            |
| EPUXY E-9405                | FIDERITE WEST COAST CORP                                | 71-22                | 265-6 (    | 60X 2        | 0.026         |      | 0          | 11/02          |                |                              |      | O BABGXX |            |
| EPUXY 5-9405                | FIBERITE WEST COAST CORP                                | 71-23                | 265-7      | ž            | 0000          |      | Ŭ          | 10/10          |                |                              | -    | 0 BABGXX |            |
|                             | ETREMENTE MEST COAST CORP<br>ETREMENTE MEST COAST COAST | 71-22                | 665-8      |              | 500.0         |      |            | 10/10          |                |                              | 1    | XXJBKX   |            |
| EPOXY SHEET.TYPE 1          | HYSDL CORP                                              | 27-11 0500-          | 200-4      | S S S        |               |      |            | *0/0           |                |                              |      | O BABEXX |            |
| EPOXY SHEET . L'TPE         | HYSOI CORP                                              | 0750 70-23           | 24-1       |              |               |      |            |                |                |                              | <    | XX9974 0 |            |
| EPOXY SHEET.TYPE 1          | HYSOL CORP                                              |                      |            |              |               |      |            | 11/04          | 077            |                              |      | C FUBGXX |            |
| EPOXY SHEET.TYPE 1          | HYSUL CORP                                              | 20-02                | 24-11      |              |               |      |            |                |                |                              |      | S FJBCXX |            |
| EPOXY SHEET.TYPE 1          | PYSCL CORP                                              | 10-01                | 24-12      | 52           |               |      |            |                | 1+1            | 541<br>21.0                  |      | S FJOGXX |            |
| EPOXY SHEET. YPPE 1         | HYSOL CORP                                              | 70-22                |            |              |               |      |            |                | 100            | 165                          |      | B FURGXX |            |
| EPOXY SHEET.TYPE L          | HVSOL CORP                                              | 70-22                | 24-14      |              | 500.0         |      |            |                | 245            | 245                          | 26   | S FUEGXX |            |
| EPOXY SHEET , TYPE 1        | HYSOL CORP                                              | 70-22                | 24-15      | ž            | 0.000         |      |            |                | 940            | 075                          |      |          |            |
| EPOXY SHEET . TYPE 1        | HYSOL CORP                                              | 70-22                | 24-16 (    | XOS          | 000.00        |      | 50 0       | 40/0           |                |                              | 24   | 55900L 0 |            |
| EPUXY SHEEJ.TYPE ]          | HYSOL CORP                                              | 70-23                | 24-2 (     | × XOS        | 500.0         |      | 20         | 20/04          |                |                              | ( <  | L F.MGXX |            |
| ELUAT SHEELLITE I           | HISUL CURP                                              | 70-22                | 24-3 (     | 50× 2        | 0000          |      | 50 0       | 0/04           |                |                              | <    | I FJBGXX |            |

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| REGR S DECICHATION                     | MANIFAC TINER          | 1343   | CM TGG T231 | TCCT        | TECT     | <b>TC</b> C <b>T</b> | 101 PU   | u<br>0 | 104   |                 |        | •          | ۲         | 1            |            |
|----------------------------------------|------------------------|--------|-------------|-------------|----------|----------------------|----------|--------|-------|-----------------|--------|------------|-----------|--------------|------------|
|                                        |                        | THICK. |             | ENVK        | PRESS    | TEMP                 | ENFR RE  | ACTP   |       | 10              | ST LOS | 1 55       |           | 000          | ۱w         |
| EPOXY SHEET "TYPE 1                    | HYSOL CORP             |        | 70-2224-4   | ž           | 1150-0   |                      |          |        | 432   | 432             |        | 0          | 13        | F JB         | XXO        |
| EPOXY SHEET.TYPE 1                     | HYSOL CORP             |        | 70-2224-5   | COX         | 3000.0   |                      |          |        | 402   | 40.2            |        | 0          | 1         | F.18         | XXU        |
| EPOXY SHEET.TYPE 1                     | HYSOL CORP             |        | 70-2224-6   | A-50        | 824.0    | 510                  |          |        | 1     | ſ               |        | •          | 5         | 5.3          | XXO        |
| EPOXY SHEET.TYPE 1                     | HYSOL CORP             |        | 70-2224-7   | A-50        | 826.0    | 513                  |          |        |       |                 |        | -          | 12        | F JB         | XXO        |
| EPOXY SHEET.TYPE 1                     | HYSOL CORP             |        | 70-2224-B   | ž           | 50.0     |                      |          |        | 560   | 560             |        | 0          | 13        | FJB          | ××0        |
| ETOXY SMEET.TYPE 1                     | HYSOL CORP             |        | 70-2224-9   | CO X        | 100.0    |                      |          |        | 557   | : 55            |        | 0          | 13        | FJB          | XXO        |
| EPOXY 175053                           | S IMMON'S              |        | 71-2719     | A-50        | 663.0    | 496                  |          |        |       |                 |        | *          | 57        | BAB          | 66 S       |
| EPOXY 175053                           | SIMMONS                |        | 1-2719-1    | A-50        | 759.0    | 507                  |          |        |       |                 |        | +          | 15        | 8 A 8        | 0.0<br>00  |
| EPUXY 250                              | <b>3M CO. ST. PAUL</b> |        | 71-2492     | A-50        | 663.0    | 480                  |          |        |       |                 |        | -          | 15        | BAB          | XXO        |
| EPOXY 250                              | BM CO. ST. PAUL        |        | 71-2492-1   | A-50        | 776.0    | 507                  |          |        |       |                 |        | F          | 15        | 8 A 8        | XXO        |
| EPOX 111E 5302                         | EPOXYLITE CORP         |        | 71-2313     | Š           | 2000.0   |                      | 10       | /02    |       |                 |        | *          | 01        | 018          | KX 9       |
| EPNXYLITE 5302                         | EPOXYLITE CORP         |        | 71-2313-1   | 60X         | 1500.0   |                      |          |        | 417   | 417             |        | 0          | 13        | 018          | XXO        |
| EPOXYLITE 6001-16                      | EPOXYLITE              |        | 70-2169-14  | A-50        | 745.0    | 503                  |          |        |       |                 |        | -          | 14        | <b>A</b> 9.6 | XXU        |
| EPOXYLITE 6001-16                      | EPOXYLITE              |        | 70-2169-15  | 4-50        | 785.0    | 506                  |          |        |       |                 |        | -          | 14        | A 8 G        | XXC        |
| EPOXVLITE 6001-16                      | EPDXYLITE CORP         | .0050  | 70-2160     | Š           | 2000-0   |                      | เร       | /02    |       |                 |        | ►-         | 10        | A 5 B        | K<br>U     |
| EPOXYLITE 6001-16                      | EPOXYLITE CORP         |        | 70-2169-1   | 60 X        | 1400.0   |                      |          |        | 303   | 30 <del>3</del> |        | C          | 13        | AUB          | SXX<br>SXX |
| EPOXYLI?E 6001-16                      | EPOXYLITE CORP         |        | 70-2169-10  | ŝ           | 500.0    |                      |          |        | 32 4  | 426             |        | c          | 13        | A 8 8        | C X X      |
| EPOXYLI'E 6001-16                      | EPOXYLITE CORP         |        | 70-2169-11  | GOX         | 1000.0   |                      |          |        | 315   | 310             |        | C          | 1         | ABB          | 5 X X      |
| EP3XVLITE 6001-16                      | EPOXYLITE CORP         |        | 70-2169-12  | õ           | 1500.0   |                      |          |        | 265   | 265             |        | ſ          | 61        | a H B        | SYX<br>GXX |
| EPOXVLITE 6001-16                      | EPOXYLITE CORP         |        | 70-2169-13  | GOX         | 2000.0   |                      |          |        | 282   | 282             |        | С          | 13        | ABB          | SYK<br>S   |
| EPOXYLITE 5001-16                      | EPOXYLITE CORP         |        | 70-2169-14  | š           | 1400.0   | 260                  |          |        |       |                 |        | c          | 15        | <b>A</b> B B | N X O      |
| EPOXM.ITE 6001-16                      | EPOXYI TE CORP         |        | 70-2169-15  | 60 X        | 20       |                      |          |        | د ځ ک | -<br>           |        | <u>د</u> ، | 13        | A 8 9        | C X X      |
| EPOXYLITE 6001-16                      | EPOXYLITE CORP         |        | 70-2169-16  | GOX         | 50.0     |                      |          |        | ສີ່ເ  | ۰ <i>۱۰</i>     |        | 2          | 13        | A 3 B        | 5.43       |
| EPOXYLITE 6001-16                      | EPOXYLITE CORP         |        | 70-2169-2   | GUX<br>GUX  | 5 000 .0 |                      | 50 00    | 707    |       |                 |        | 4          | 2         | AFB          | ų X C      |
| EPOXYLITE 6001-16                      | EPOXYLITE CORP         |        | 70-2169-3   | Х<br>С<br>С | 2500.0   |                      | 10       | 1.67   |       |                 |        | *          | C I       | 4 H B        | ×X d       |
| EPOXYLITE 6001-16                      | EPOXYLITE CORP         |        | 70-2169-4   | 60X         | 1000.0   |                      | 10       | 10/    |       |                 |        | •          | <u> </u>  | 498          | бхх        |
| EPOXYLITE 6001-16                      | EPOXYLITE CORP         |        | 70-2169-5   | ŝŪX         | 500.0    |                      | 00       | 104    |       |                 |        | 4          | с.        | A B F        | GYX        |
| EPOXYLITE 6001-16                      | EPCXYLIT CORP          |        | 77-21 69-6  | A-50        | 785.0    | 503                  |          |        |       |                 |        | ۲          | ۍ<br>سر   | AHA          | 5.85       |
| EPOXYLITE 6001-16                      | EPOXYLITE CORP         |        | 71-2169-7   | A-50        | 785.0    | 505                  |          |        |       |                 |        | <b>n</b>   | 15        | ArB          | ¥X Ç       |
| EPUXYLITE 6001-16<br>EDNYVLITE 4001-34 | EPRAVITE CORP          |        | 70-2169-8   | × 200       | 50.0     |                      |          |        | 314   | 216             |        | c (        | <u> </u>  | <b>A</b> 6 8 | XX         |
| EDOXMITE ADDA                          | EDAYLITE CONT          |        | 70-2120     |             |          |                      | ç        | 101    | 1 10  | 255             |        | 2 •        | <u> </u>  | 4 H H        | K K C      |
| EPOXYLITE 6203                         | EPGAVLITE CORP         |        | 70-2170-1   | Ň           | 1600.0   |                      | 5        | 107    | 450   | 545             |        | ∢ ⊂        |           |              |            |
| EPOXNLITE 6203                         | EPOXYLITE CORP         |        | 70-2170-1   | <b>C</b> 0X | 2000.0   |                      | C)<br>C) | 701    |       |                 |        | •          | 22        | HAB          | S UT       |
| EPOXYLITE 6203                         | EPOXYLITE CC>P         |        | 70-2170-10  | č0X         | 1500.0   |                      |          |        | 466   | 465             |        | -          | 1         | BAB          | 102        |
| EPOXYLITE 5203                         | EPOXYLITE CORP         |        | 70-2170-11  | 80X         | 2000.0   |                      |          |        | 452   | 472             |        | 0          | -         | BAR          | 165        |
| EPOXYLITE 6203                         | EPOXYLITE CORP         |        | 70-2170-12  | COX<br>COX  | 3000.0   | 415                  |          |        |       |                 |        | 2          |           | BAB          | 105        |
| EPOXY. ITE 6203                        | EPOXYLITE CORP         |        | 70-2170-13  | 60X         | 1000.0   | 480                  |          |        |       |                 |        | 0          | 51        | 6A8          | 165        |
| EPOXYL 1TE 6203                        | EPOXYLITE CORP         |        | 70-2170-1-  | ś           | 50.0     |                      |          |        | 714   | 714             |        | 0          | -         | <b>BAB</b>   | 2017       |
| EPOXYLITE 6203                         | EPOXYL, TE CORP        |        | 70-2170-15  | Ś           | 25.0     |                      |          |        | 709   | 70 R            |        | 0          | 13        | BAB          | 391        |
| EPOXYLITE -6203                        | EPOXYLITE CORP         |        | 70-2170-2   | ×09         | 14 00.0  |                      |          |        | 472   | 472             |        | 2          | с.<br>Т.) | BAB          | .JGS       |
| EPOXYLITE 6203                         | EPOXYLITE CORP         |        | 2-2120-21   | X OS        | 4500.0   |                      | 10       | /03    |       |                 |        | -          | ت<br>س    | 8 <b>A</b> 8 | JG S       |
| EPDXYLITE 6203                         | EPOXYLITE CORP         |        | 10-2170-3   | Š           | 3000.0   | 1                    |          |        | 407   | 401             |        | c          | 13        | BAB          | <b>JGS</b> |
| EPRATLILE 0205 .                       | EPOXYLITE CORP         |        | 70-2170-4   | A-50        | 785.0    | 500                  |          |        |       |                 |        | -          | ري<br>1   | ван          | JGS        |

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MAYERIAL TEST DATA BY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

| MFGR S DESIGNATION        | MANUFAC YURER        | SPEC.<br>THICK. | TEST RPT ND. | TEST<br>ENVR | TE ST<br>PRE SS | TEST<br>Temp | 1 MP T<br>Ener | NO OF I | FLASH F | 1<br>1<br>1<br>0<br>1 | 0157 C | HT<br>OSS | ч н<br>н н | A D<br>A D<br>A D | L Z          |
|---------------------------|----------------------|-----------------|--------------|--------------|-----------------|--------------|----------------|---------|---------|-----------------------|--------|-----------|------------|-------------------|--------------|
| EPOXYLITE 6203            | EPOXYLITE CORP       |                 | 70-2170-5    | A-50         | 822.0           | 506          |                |         |         |                       |        |           | T 15       | 846               | 3165         |
| EPOXYLITE 6203            | EPOXVLITE CORP       |                 | 70-2170-6    | COX<br>COX   | 50.0            |              |                |         | 641     | 641                   |        |           | 0 13       | 848               | 3.06.5       |
| EPOXYLITE 6203            | EPOXYLITE CORP       |                 | 70-2170-7    | Ň            | 100.0           |              |                |         | 620     | 620                   |        |           | 0 13       | BAB               | 9165         |
| CPOXVLITE 6203            | EPOXYLITE CORP       |                 | 70-2170-8    | 60X          | 500.0           |              |                |         | 497     | 497                   |        |           | 0 13       | 848               | SOLE         |
| EPOXYLITE 6203            | EPOXYLITE CORF       |                 | 70-2170-9    | Š            | 1400.0          |              |                |         | 461     | 46]                   |        |           | 0 13       | BAB               | 3,055        |
| EPOXVLITE 6203            | EPOXYLITE CORP       |                 | 70-2198      | CD X         | 1500.0          |              | 50             | 00/04   |         |                       |        |           | A 11       | B.48              | 100          |
| FPR ELASTOMER             | AIRESEARCH INDS' DIV |                 | 70-1955      | A-50         | 397.0           | 440          |                |         |         |                       |        |           | T 15       | 200               | XXQ          |
| TR ELASTONER              | AIRESEARCH INDST DIV |                 | 70-1955-1    | A-50         | 496.0           | 612          |                |         |         |                       |        |           | T 15       | 000               | XXQ          |
| P' & ELASTOMER            | AIRESEARCH INDST DIV |                 | 70-1955-2    | A-50         | 310.0           | 461          |                |         |         |                       |        |           | T 15       | 55                | XXQ          |
| EPR ELASTONER             | AIRESEARCH INDST DIV |                 | 70-1955-3    | A-50         | 297.0           | 165          |                |         |         |                       |        |           | 1 15       | 000               | XXQ          |
| EPR ELASTONER             | AIRESEARCH INDST DIV |                 | 70-1955-4    | A-50         | 555.0           | 451          |                |         |         |                       |        |           | 7 15       | 000               | XXQ          |
| EPR ELASTONER             | AIRESEARCH INDST DIV |                 | 70-1955-5    | INN          | 731.0           | 496          |                |         |         |                       |        |           | T 15       | 000               | XXQ          |
| EPR ELASTONER             | AIRESEARCH INDST DIV |                 | 70-1955-6    | I            | 544.0           | 462          |                |         |         |                       |        |           | 1 15       | 200               | XXQ          |
| EPR ELASTONER             | AIRESEARCH INDST DIV |                 | 70-1955-7    | HHH          | 317.0           | 487          |                |         |         |                       |        |           | T 15       | 000               | XXQ          |
| EPR 515-8                 | GAC                  |                 | 71-2275      | A-50         | 826.0           | 516          |                |         |         |                       |        |           | T 15       | 5                 | XXO          |
| EPR 515-6                 | GAC                  |                 | 71-2275-1    | A-50         | 762.0           | 500          |                |         |         |                       |        |           | T 15       | ŝ                 | XXO          |
| EPV-400 CENENT            | BLH ELECTRONICS      |                 | 71-2379      | Š            | 500.0           |              | 50             | 00/04   |         |                       |        |           | A 11       | <b>A</b> 13 B     | NG X X       |
| EPY-400 CENENT            | BLH ELECTRONICS      |                 | 71-2379-1    | COX<br>COX   | 500.0           |              |                | 00/04   |         |                       |        |           | 10         | <b>A</b> 88       | XX 9         |
| EPY-400 CENENT            | BLH ELECTRONICS      |                 | 71-2379-2    | ð            | 100.0           |              |                |         | 535     | 535                   |        |           | 0 13       | ABB               | XX9          |
| ER-560 AG BRAZE ALLOY     | HANDY AND HARMON     |                 | 70-2213      | COX<br>COX   | 500.0           |              |                | 0C/04   |         |                       |        |           | A 10       | Ē                 | IRXX         |
| ER-560 AG BRAZE ALLOY     | HANDY AND HARMON     |                 | 70-2213-1    | Š            | 500.0           |              | 50             | 00/04   |         |                       |        |           | ¥ 11       | Ľ                 | XXX          |
| EUTECTIC 1000             | EUTECTIC CORP        |                 | 71-2603      | A-50         | 741.0           | 510          |                |         |         |                       |        |           | T 15       | 2                 | IFXX<br>IFXX |
| EUTECTIC 1800             | EUTECTIC CORP        |                 | 71-2603-1    | A-50         | 759.0           | 512          |                |         |         |                       |        |           | T 15       | i.<br>L           | XXX          |
| EUTEC / IC 1001-10018 FLL | JXEUTECTIC CORP      |                 | 70-1689-1    | COX<br>COX   | 1500.0          |              |                | 00/04   |         |                       |        |           | 10         | ¥74               | XXX          |
| EUTECTIC 1001-16018 FLL   | UXENTECTIC CORP      |                 | 70-1889-2    | ŝ            | 1500.0          |              | 50             | 00/04   |         |                       |        |           | A 11       | X 2 8             | XXXX         |
| EUTECTIC 1801-18018 FLU   | JXEUTECTIC CORP      |                 | 70-1884-3    | X09          | 9000            | 1000         |                | -       | 4 6664  | 6661                  |        |           | 5          |                   |              |
| FC-43 TRANSFER FLUID      | BH CO. ST. PAUL      |                 | 70-1947      | Š            | 6.2             | 1000         |                | -       | 4 6667  | 6661                  |        |           | A 13       | 8 V B             | SP X X       |
| C-43 TRANSFER FLUID       | 3M CO. ST. PAUL      |                 | 70-1947-2    | X OS         | 16.5            |              |                |         | 592     | 372                   |        |           | 0 13       | <b>B V B</b>      | ) P X X      |
| FEARITE STEEL JF5-3C58    | TCFERROXCUBE CORP    | •0150           | 70-2212      | Š            | 500.0           |              |                | 00/04   |         |                       |        |           | A 10       | 10                | INQ          |
| FERRITE STEEL IF5-3C561   | ICHERKOXCUBE CORP    |                 | 1-2122-01    | 203          | 200-0           |              | 20             | 00/04   |         |                       |        |           | <b>▼</b>   | 10                | Ĩ            |
| FERROUS CHLORIDE          |                      |                 | 71-2501      | Š            | 1500.0          |              | 20             | 00/04   |         |                       |        |           | <b>1</b>   | 5                 | DGR          |
| FERMONS CHLORIDE          | HAR DOWNEY           |                 | 71-2501-1    | ×09          | 1500.0          |              |                | 00/04   |         |                       |        |           |            | E a               | 106R         |
|                           |                      |                 | 2-1062-17    |              | 1500.0          | 007          | 200            | 40/00   |         |                       |        |           |            | 5                 | ¥ ç          |
| FFRENS CHINETOF           |                      |                 | 71-2501-5    |              |                 |              |                |         |         |                       |        |           |            |                   |              |
| FERENUS CHLORIDE          | HER DOUNDEY          |                 | 71-2501-5    |              | 0.345           |              |                |         |         |                       |        |           |            |                   |              |
| PERNOUS CHLORIDE          | NR DONNEY            |                 | 716          | H            | 0.00            | 487          |                |         |         |                       |        |           |            |                   | DGR          |
| FEURALON AN               | BENOL CORP           |                 | 7500         | 60X          | 1500.0          |              | 50             | 00/04   |         |                       |        |           |            |                   | 1XX          |
| FEURALON AN               | DEMOL CORP           |                 | 70-2100-1    | ŝ            | 1500.0          |              | 1              | 00/00   |         |                       |        |           |            |                   | T X X        |
| FEURAL ON AN              | DEMOL CORP           |                 | 70-2100-2    | 60X          | 1000.0          |              |                |         | 633     | 633                   |        |           | 5          | FIG               | XXI          |
| FEURCE-IN AN              | BEROL CORP           |                 | 70-2101      | X09          | 1500.0          |              | 50             | 00/00   |         |                       |        |           | A 11       | DKF               | NON:         |
| FEURUE ON AN              | BENOL CORP           |                 | 702101-1     | GOX          | 1500.0          |              |                | 00/04   |         |                       |        |           | A 10       | 0¥F               | MGU:         |
| FEUROLON AN               | BEMOL CORP           |                 | 70-2101-2    | Š            | 1000.0          |              |                |         | 65.R    | 658                   |        |           | 0 13       | Ϋ́ς<br>Α          | NGU:         |
| FEUROLON C                | BEMOL CORP           |                 | 70-2102      | 60X          | 1500.0          |              | 50             | 00/04   |         |                       |        |           | A 11       | ЯĊ                | N9M:         |

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MATERIAL TEST DATA BY MANUFACTURER S DESIGNATION AS DF 31 JAN 72 Sr spec. Test rpt no. test test test impt no df flash fire prop wi

| MFGR S DESIGNATION         | MANUFACTURER              | SPEC.  | TEST RPT NO. | TEST          | TEST        | TEST I | N L dW | 10 01  | LASH   | IRE PRO | P W1   | ۲<br>۲   | MA          | 2          |
|----------------------------|---------------------------|--------|--------------|---------------|-------------|--------|--------|--------|--------|---------|--------|----------|-------------|------------|
|                            |                           | THICK. |              | ENVR          | PRESS       | TEMP E | NERR   | EACT 1 | 01N1 P | T D15   | 7 LOSS | -        | 8           | Э <b>н</b> |
| FEURDLON C                 | BENOL CORP                |        | 10-2102-1    | Š             | 1500.0      |        | 0      | 10/04  |        |         |        | A 1      | ă<br>o      | 5₩GU       |
| FEUROLON C                 | DEMOL CORP                |        | 70-2102-2    | COX           | 1000.0      |        |        |        | 752    | 752     |        | 0        | 3 DK        | C NGU      |
| FEUROLON C                 | BEMOL CURP                |        | 70-2103      | Š             | 1500.0      |        | 50 0   | 10/04  |        | 1       |        | 4        | ð           | FNGU       |
| FEUROLON C                 | DEMOL CURP                |        | 70-2103-1    | ¥09           | 1500.0      |        | 0      | 40/0   |        |         |        | A 1      | ă<br>o      | FNGU       |
| FEUMOLOF C                 | BEMOL CORP                |        | 70-2103-2    | Š             | 1000.0      |        |        |        | 596    | 506     |        | 0        | DK          | FNGU       |
| FIBERGLASS INSUL-E         | CMENS CORNING FBRGLS      |        | 70-1996      | 60X           | 500.0       |        | 50 0   | 40/0   |        |         |        |          | 2           | FVXX       |
| FIBERGLASS INSUL-E         | DWENS CORNING FBRGLS      |        | 70-1996      | ŝ             | 500.0       |        | 0      | 40/04  |        |         |        | N I      | U L O       | FVXX       |
| FIBERGLASS INSUL-E         | OWENS CORNING FBRGLS      |        | 70-1996-1    | ×09           | 1500.0      |        | ¢      | 10/1   |        |         |        | T        | 5.0         | FVXX       |
| FIBERGLASS INSUL-E         | ONENS CORNING FBRGL       |        | 70-1996-1    | ŝ             | 1500.0      |        | 50 0   | 40/00  |        |         |        | <        | L F.J       | FVXX       |
| FIBERGLASS INSUL-E         | OWENS CORNING FBRGLS      |        | 70-1996-2    | 60.X          | 80.0        |        |        |        | 669    | 669     |        | 0        | 5           | FVXX       |
| FIBERFLASS ND. 27          | GAC .                     |        | 71-2596      | A-50          | 782.0       | 516    |        |        |        |         |        | -        | S<br>F      | FVCK       |
| FIBERGLASS ND. 27          | 6AC                       |        | 71-2596-1    | A-50          | 758.0       | 518    |        |        |        |         |        | 1        | 5 FJ        | FVCK       |
| FIBERGLASS TAPE            | CAROLINA MARROW FABRIC    |        | 71-2491      | A-50          | 797.0       | 508    |        |        |        |         |        | -        | 5 02        | FWXX       |
| FIBERGLASS TAPE            | CARDLINA MARROM FABRIC    |        | 71-2491-1    | A-50          | 682.0       | 484    |        |        |        |         |        | -        | 5 02        | FWXX       |
| FIBERGLASS TAPE            | CANOLINA MARROW FABRIC    |        | 71-2491-2    | A-50          | 478.0       | 440    |        |        |        |         |        | 1        | 5 02        | XXXL       |
| FIGROUS ASBESTOS           | MHITTAKE CLARK & DANIELS  |        | 71-2707      | A-50          | 784.0       | 517    |        |        |        |         |        | L<br>L   | 5 FJ        | FLXX       |
| FIBROUS ASBESTOS           | MHITTAKE CLARK & DANIELS  |        | 71-2707-1    | A-50          | 769.0       | 516    |        |        |        |         |        | ii<br>F  | 5 F.        | FL XX      |
| FLUDREL L-3583-2           | RAYBESTOS MAMHATTAN INC.  |        | 69-1410      | 20X<br>09     | 5.0         | 1000   |        |        | 741 7  | 999     |        | 1        | 3 04        | DEXX       |
| FLUOREL L-3583-2           | RAYBESTOS MANHATTAN INC.  |        | 69-1410-1    | ŝ             | 25.0        |        |        |        | 760    | 851     |        | 0        | 3 DV        | DEXX       |
| FLUDREL L-3563~2           | RAVBESTOS MANHATTAN INC.  |        | 69-1410-2    | 60 X          | 50.0        |        |        |        | 703    | 798     |        | 0        | 3 0 V       | DEXX       |
| FLUOREL L-3583-2           | RAYBESTOS MANHATTAN INC.  |        | 69-1410-3    | ŝ             | 50.0        |        |        |        | 555    | 555     |        | 0        | 30 6        | DEXX       |
| FLUDREL L-3583-2           | RAYBESTOS MAMHATTAN INC.  |        | 69-1410-4    | 60 X          | 100.0       |        |        |        | 520    | 520     |        | 0        | 3 DV        | DEXX       |
| FLUCREL L-3583-2           | RAYBESTOS MANHATTAN INC.  |        | 69-1410-5    | ŝ             | 51.0.0      |        |        |        | 449    | 449     |        | 0        | 3 0         | CEXX       |
| FLUDREL L-3583-2           | RAYB' STOS MANHATTAN INC. |        | 69-1410-6    | X00           | 1000.0      |        |        |        | 451    | 451     |        | 0        | 3 0V        | DEXX       |
| FLUOREL L-3583-2           | RAYE STOS HANHATTAN INC.  |        | 69-1410-7    | ŝ             | 1500.0      |        |        |        | 451    | 451     |        | 0        | 3 0V        | DEXX       |
| FLUOREL L-3583-2           | RAVIJESTOS MANHATTAN INC. |        | 69-1410-8    | 60X           | 2000.0      |        |        |        | 418    | 418     |        | 0        | 3 0         | DEXX       |
| FLUOREL JOIO4 LOT 742      | MOS TESSGAA. FT. WORTH    |        | 71-2588      | š             | <b>6.</b> 2 |        |        |        | 836    | 892     |        | 0        | 3 00        | DEXX       |
| FLUOREL 1059               | MD'ITES.G.A FT. WORTH     |        | 70-1624      | 60 X          | 25.0        |        |        |        | 637    | H4C     |        |          | 3 00        | DEXX       |
| FLUOREL 1059               | MO JITES+6+A++ FI+ WORTH  |        | 70-1624-1    | Š             | 50.0        |        |        |        | 670    | 826     |        | -<br>0   | 3 00        | DEXX       |
| FI UOFEL 1059              | MC'SITES+6+A++ FT+ WORTH  | •      | 70-1624-10   | ×09           | 500.0       |        |        |        | 598    | 59R     |        | 0        | 3 00        | DEXX       |
| FLUUMEL 1059               | W SITES+G+A++ FI+ WORTH   |        | 70-1624-11   | Š             | 1000.0      |        |        |        | 549    | 549     |        | <br>     | 8           | DEXX       |
| FLUOREL 1059               |                           |        | 70-1624-12   | 20X           | 1500.0      |        |        |        | 570    | 570     |        | 0        | 3 00        | DEXX       |
| FLUKEL 1059<br>Studes 1050 | P JSI TESSGAAAA FIA WORTH |        | 70-1624-13   | Š             | 2000-0      |        |        |        | 547    | 547     |        |          | 6<br>6      | 0EXX<br>0  |
| FLUUNEL 1039               | LINDE •IL ••E•9•031707 L  |        | 7-+201-01    | 209           | 2.20        |        |        |        | 610    | 616     |        |          | 5 017       | UEXX       |
| FLUOREL 1059               | PIDSITES+G+A++ FT+ WORTH  |        | 70-1624-3    | ŝ             | 62.0        |        |        |        | 836    | 859     |        | 0        | 2           | DEXX       |
| FLUDREL 1059               | HOSITES-G-A FT. WORTH     |        | 70-1624-4    | ×09           | 165.0       |        |        |        | 685    | 860     |        | 0        | e<br>D<br>D | DEXX       |
| FI. WORFL 1059             | HDSITES.G.A., FT. WORTH   | •0150  | 70-1624-5    | ŝ             | 2000.0      |        | J      | 0/04   |        |         |        |          | 6<br>0      | DEXX       |
| FLUDREL 1059               | MOSITES.G.A FT. WORTH     | •0750  | 70-1624-6    | Х<br>СО<br>СО | 2500.0      |        | 0      | 10/1   |        |         |        | -        | 60          | DEXX       |
| FLUCKEL 1059               | MOSETES.6.A. FT. WORTH    | .0750  | 70-1624-7    | ŝ             | 3000.0      |        | о<br>  | 4/04   |        |         |        | يت<br>ح  | 200         | DEXX       |
| FLIDREL 1059               | MOSITES.G.A. FT. WURTH    | •0150  | 70-1624-8    | 60X           | 2000.0      | ~      | 000    | 0/04   |        |         |        | <b>A</b> | 23          | DEXX       |
| FLUOREL 1059               | MOSITES.G.A FT. WORTH     |        | 70-1624-9    | ŝ             | 100.0       |        |        |        | 686    | 686     |        | 0        | 3 00        | DEXX       |
| FLUOREL 1079-K             | MOSITES-G-A. FY. WORTH    | • 0750 | 70-1019      | X 09          | 500.0       |        | 50     | 10/01  |        |         |        | <.       | 20          | DEXX       |
| PLUMEL JUTY-F              | HINDM +14 ++X+2+CALINOH   | 0610.  | 1-6181-02    | X DS          | 3000.0      |        | 202    | 10/0   |        |         |        | A 1      | 2           | DEXX       |
| PLUGREL IUTY-R             | MOSITESSEARS THE RUNIER   | .0750  | 70-1819-2    | 803           | 3500.0      |        | 50 0   | 10/0/  |        |         |        | 4        | 201         | DEXX       |

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| DESIGNATION   |  |
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| MANUFAC TURER |  |
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| TEST          |  |
| MATERIAL      |  |

| MFGR S DESIGNATION                           | MANUFACTURER                                           | SPEC.  | TEST RPT NO.                       | TEST<br>ENVR     | TEST<br>PRESS | TEST<br>TEMP | 1MPT<br>Ener | NO OF<br>React | FL A SH<br>PD INT | FIRE<br>PT | PR07<br>DIST L | нт<br>055 | а –<br>Т –                     | MATL<br>CODE |          |
|----------------------------------------------|--------------------------------------------------------|--------|------------------------------------|------------------|---------------|--------------|--------------|----------------|-------------------|------------|----------------|-----------|--------------------------------|--------------|----------|
| FLUOREL 1079-K                               | MOSITES+6+A++ FT+ - JRTH                               | •0750  | 70-1815-3                          | XQS              | 4000.0        |              | 50           | 10/00          |                   |            |                |           | II V                           | DVDEX        | *        |
| FLUOREL 1079-K                               | MDSITES+6+A++ FT+ 1,10TH                               | .0750  | 70-1819-4                          | COX              | 4500.0        |              | 20           | 10/00          |                   |            |                |           | A 11                           | DVDEX        | ~        |
| FLUCKEL 1079-K                               | MUSITES.G.A., FT. WORTH                                | •0150  | 70-1819-5                          | XQS              | 5000.0        |              | 50           | 40/00          |                   |            |                |           | ALL                            | DVDEX        | ~        |
| FLUOREL 1079-K                               | MOSITES+6+A++ FT+ WORTH                                | •0750  | 70-1819-6                          | 60X              | 3000.0        |              |              | 00/04          |                   |            |                |           | A 10                           | DVDEX        |          |
| FLUCKOBESTOS LS-9225                         | RAYBESTOS MANHATTAN INC.                               |        | 71-2405                            | Š                | 250.0         |              |              | 40/00          |                   |            |                |           | A 10                           | DTDEF        |          |
| FLUOROBESTOS LS-9225                         | AAYBESTDS MANHATTAN INC.                               |        | 71-2405-1                          | Х <sub>Ū</sub> Э | 75.0          | 1000         |              |                | 666N              | 666N       |                |           | A 13                           | DTDEFL       |          |
| PLUOROCARBON CTD GLS T                       | RODOGE INDUSTRIES+INC.                                 |        | 71-2387                            | Š                | 500.0         |              | 50           | 00/04          |                   |            |                |           | A 11                           | EDCNG        | ~        |
| PLODNOCARBON CTD GLS TI                      | RDDDGE INDUSTRIES.INC.                                 |        | 71-2387-1                          | GUX              | 500.0         |              |              | 40/00          |                   |            |                |           | A 10                           | EDCNG        | ~        |
| FLUOROCARBON CTD GLS T                       | RDDDDGE INDUSTRIES-INC.                                |        | 71-2387-2                          | Š                | 100.0         | 1000         |              |                | 666N              | 666N       |                |           | 0 13                           | EDCNG        | ~        |
| PLUDROFLEX-T BLK R500-                       | 4 RESISTOFLEX CORP                                     |        | 71-2661                            | ×09              | 2000.0        |              | 50           | 00/04          |                   |            |                |           | A 11                           | EFCOX        |          |
| PLUCKOFLEX-T BLK A500-                       | 4 RESISTOFLEX CORP                                     |        | 71-2661-1                          | Š                | 2000.0        |              |              | 01/03          |                   |            |                |           | 1                              | EFCOX        | ¥        |
| FLUERDFLEX-T BLK R500-                       | 4 RESISTOFLEX CORP<br>A RESISTOFLEX CORP               |        | 71-2661-2                          | ž                | 1500.0        |              |              | 10/10          |                   |            |                |           | 5                              |              |          |
| CURPTER-1 DEN NOUT                           | A ARCATARIAN CUNT                                      |        | 71-742                             |                  |               |              | C U          |                |                   |            |                |           |                                |              |          |
| FLUCKOFLEX-T WHI RSOD-                       | 4 RESISTOFLEY CORP                                     |        | 71-2662-1                          | ŝ                | 1000-0        |              | Š            |                |                   |            |                |           |                                |              |          |
| FLUORDFLEX-T MIT R500-                       | A RESISTOFLEX CORP                                     |        | 71-2662-2                          | XOS              | 1500-0        |              |              | 10/10          |                   |            |                |           | 070                            | EFCOX        |          |
| FLUDROLUBE LG-160                            | HOBKEN CHEMICAL                                        |        | 71-2251                            | XOS              | 500.0         |              | 50           | 40/00          |                   |            |                |           |                                | DBEGE        |          |
| FLUURDLUDE LG-160                            | HODYER CHEMICAL                                        |        | 71-2251-1                          | 60 X             | 500.0         |              |              | 00/00          |                   |            |                |           | <ul> <li></li> <li></li> </ul> | DAEGEI       | •        |
| FLUOROLUBE LG-160                            | MOCKER CHEMICAL                                        |        | 71-2251-2                          | ŝ                | 100.0         |              |              |                | 069               | 690        |                |           | 0 13                           | DBEGE        | •        |
| FLUNDELAST SVSK 81370-                       | 4 HAMILTON STANDARD                                    |        | 71-2288                            | Š03              | 2000.0        |              |              | 40/00          |                   |            |                |           | A LO                           | OVDEX        | _        |
| PLUNDELAST SVSK B1370-                       | + HAMILTON STANDARD                                    |        | 71-2268-1                          | Š                | 1500.0        |              |              |                | 501               | 501        |                |           | 10                             | DVDEX        |          |
| FLUX LLOYDS SS                               | JUNESON NIG CO.                                        |        | 71-2372                            | 60X              | 1500.0        |              | 50           | 00/04          |                   |            |                |           | <b>1</b>                       | FLOWX        | ~        |
| FLUX LLOYDS SS                               | JOHNSON MEG CO.                                        |        | 71-2372-1                          | Š                | 1500.0        |              |              | 40/00          |                   |            |                |           | A 10                           | FLOWX        | *        |
| FLUX LLOYDS SS                               | COMISON NE CO.                                         |        | 71-2372-2                          | ŝ                | 1000.0        | 1000         |              |                | 666N              | 666N       |                |           | EI A                           | FL OHX       |          |
| FL UX-DRAZING                                | EUTECTIC CORP                                          |        | 70-1926                            | XQ9              | 1500.0        |              |              | 40/00          |                   |            |                |           | 7                              | R XXX        | ~        |
| FLUX-BRAZING                                 | EUTECTIC CORP                                          |        | 70-1926-1                          | XOS              | 1500.0        |              | ы<br>С       | 00/04          |                   |            |                |           | A 21                           | FL XXX       | ~        |
| FLUX-BRAZING                                 | EUTECTIC CONP                                          |        | 70-1526-2                          | XOS              | 1500.0        | 1000         |              |                | 666N              | 666N       |                |           | EI ≻                           | FL XXX       | :        |
| (4UX-BRAZING 0-F-4990                        | NANDY AND HAXNON                                       |        | 70-1925                            | ×09              | 1500.0        |              | 50           | 40/00          |                   |            |                |           | •                              | FLXXX        | ~        |
|                                              | NOWNER GIVE AGNER                                      |        | 70-1925                            | Š                | 1500.0        |              |              | 00/00          |                   |            |                |           | <pre> 4 </pre>                 | FL XXX       | *        |
|                                              | HANDY AND HARMON                                       |        | 1-1423-1                           | X 0 9            | 1500.0        | 1000         |              |                | 666N              | 666N       |                |           | E -                            |              |          |
|                                              | E ESSEX [MICHWAI]UNAL UU.                              |        | 0122-01                            | 33               | 0.000         |              |              | 40/00          |                   |            |                |           |                                |              | <u>.</u> |
| PERSON VANA CURREN CU WIN                    | E ESSEN INTERNATIONAL CU.<br>F FREFY INTERNATIONAL CO. |        | 70-2216-1                          |                  | 0.000         | 0001         | 2            | 40/00          | 0000              | 0000       |                |           | <;                             |              | ~ "      |
| FS-1241 CONPOUND                             | DOM COMMAN CORP                                        |        | 71-3015                            | ŝ                | 1500-0        | 2224         | 50           | 40/00          |                   |            |                |           |                                |              |          |
| FS-1282 CONPOUND                             | DON CORNING CORP                                       |        | 1-5106-12                          | ŝ                | 1500.0        |              |              | 01/01          |                   |            |                |           |                                | DBCKX        |          |
| FG-1281 COMPOUND                             | DON CORNING CORP                                       |        | 71-3015-2                          | X09              | 1500.0        |              |              | 00/01          |                   |            |                |           | A 10                           | DBCKX        |          |
| FYROQUEL 220 CELLUBE                         | STAUFFER CHEMICAL                                      | •0050  | 19-73                              | Š                | 5000.0        |              | 30           | 40/00          |                   |            |                |           |                                | DCXXX        | . *      |
| FYROQUEL 220 CELLUGE                         | STAUFFER CHEMICAL                                      | • 0050 | 10-73-1                            | ×03              | 2000.0        |              | 50           | 10/00          |                   |            |                |           | A 11                           | DCXXX        | ~        |
| FYROQUEL 220 CELLUBE                         | STAUFFER CHEMICAL                                      | 0,30"  | 10-73-10                           | ŝ                | 4500.0        |              |              | 01/02          |                   |            |                |           | 0                              | DCXXX        | *        |
| FYRDOUEL 220 CELLUC                          | STAUFFER CHEMICAL                                      | • 0010 | 10-73-11                           | 20X              | 5000.0        |              |              | 01/02          |                   |            |                |           | 0 10                           | DCXXX        | ~        |
| PYRDOUEL 220 CELLUBE                         | STAUFFER CHEMICAL                                      | •0650  | 10-73-12                           | ð                | 2500.0        |              |              | 01/01          |                   |            |                |           | Ĕ                              | DCXXX        | ×        |
| FYROQUEL 220 CELLUBE                         | STAUTTER CHEMICAL                                      |        | 10-73-13                           | X 0 0            | 2000-0        |              |              | 10/10          |                   |            |                |           | 1                              | OC XXX       | ~        |
| TTWOWLEL 220 LELLUDE<br>Eventuel 330 LELLUDE | STATER CTENTER                                         |        |                                    | 2                | 1900.0        |              |              | 10/10          |                   |            |                |           |                                | DCXXX        | ×        |
| LIKINANCE 260 LELLUDE                        | STAUTTER UNERICAL                                      |        | ~ <b>[</b> - <b>6</b> / <b>6</b> ] | < ۲)             | 1000.0        |              |              | 00/04          |                   |            |                |           | A LC                           | NXX DO       | ~        |

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| NFGR S DESIGNATION                 | KAWJF AC TURER                             | SPEC.<br>THICK. | TEST RPT NO | . TEST<br>ENVR | PREST T | EST IMP<br>EMP ENE | T NO OF<br>R REACT | FLASH | F18E<br>PT | PROP WT | *           | MATL<br>CODE |
|------------------------------------|--------------------------------------------|-----------------|-------------|----------------|---------|--------------------|--------------------|-------|------------|---------|-------------|--------------|
| FYROWEL 220 CELLUDE                | STAUFFER CHEMICAL                          |                 | 10-73-16    | ×g             | 50.0    |                    |                    | 527   | 527        |         | 0 13        | OCXXXX       |
| FYROQUEL 220 CELLUBE               | STAUFFER CHEMICAL                          | .0050           | 10-73-2     | COX<br>COX     | 3000.0  | 50                 | 10/00              |       |            |         |             | ****         |
| FYROGUEL 220 CELLUBE               | STAUFFER CHENICAL                          | • 0050          | [0-13-3     | ×09            | 4000.0  | 5                  | 00/01              |       |            |         |             |              |
| FYROWNEL 220 CELLIGE               | STAUFFER CHEMICAL                          | + 0950          | 10-73-4     | COX            | 1500.0  |                    | <b>+0/00</b> .     |       |            |         | A 10        | DCXXXX       |
| FYROQUEL 220 CELLUJAE              | STAUFFER CHEMICAL                          | •0020           | 10-13-5     | Š              | 2000.0  |                    | 01/03              |       |            |         | 010         | OC X X X X   |
| FYROQUEL 220 CELLUBE               | STAUFFER CHEMICAL                          | • 0050          | 10-73-6     | 20X            | 2500.0  |                    | 01/02              |       |            |         | ی<br>د      | DCXXXX       |
| FYROQUEL 220 CELLUBE               | STAUFFER CHEMICAL                          | • 0050          | 10-13-7     | ž              | 0000E   |                    | 01/02              |       |            |         | 1           | DCXXXX       |
| FYRDENEL 220 CELLUGE               | STAUFFER CHEMICAL                          | .0050           | 10-73-8     | GOX            | 3500.0  |                    | 01/02              |       |            |         | D 10        | DCXXXX       |
| FTROQUEL 220 CELLUBE               | STAUFFER CHENICAL                          | • 0050          | 10-73-9     | XQ             | 4000.0  |                    | 01/02              |       |            |         | 010         | XXXXX00      |
| CEMON 2010                         | G.E. CHEN NATL DEPT                        | •0750           | 10-94       | 60X            | 3500.C  |                    | 40/00              |       |            |         | A 10        | DL CDCF      |
| GERUM 2010                         | G.E. CHEM MATL DEPT                        | • 0750          | 10-94-1     | ð              | 4000.C  |                    | 01/03              | •-    |            |         | 0 10        | OL COGF      |
| GEMUN ZUID                         | G.E. CHEM MATL DEPT                        | • 0150          | 10-94-2     | XOS            | 4500.0  |                    | 01/03              | -     |            |         | 07 0        | DL CDGF      |
|                                    | Gete CMER MATL DEPT                        | • 0150          | E-46-01     | XOU            | 5000 °C |                    | 01/03              |       |            |         | 0           | OL COGF      |
| SERUN ZUIU                         | GAEA CHEM MATL DEPT                        | • 0150          | 10-04-4     | ×09            | 4000.0  | 200                | 10/00              |       |            |         | A 11        | DA CDGF      |
| CENTR 2010-0103                    | 6+C+ CHEM MAIL DEPI                        | 0410+           | 10-94-5     | Š              | C. 0005 | 200                | 00/04              |       |            |         | 11 v        | OL CDGF      |
| CENCE 2010-0103                    | GAEA CHEM MATL DEPT                        | •0150           | 10-95       |                | 3500    |                    | 20/00              |       |            |         | A 10        | DL CDGF      |
| SERUN ZULU-ULUS                    | Gete CHEM MAIL DEFT                        | 0 <u>5</u> 10+  | 10-62-1     | Š              | 4000-0  |                    | 40/00              |       |            |         | A 10        | OL COGF      |
| 56704 2010-0103<br>FEMOR 2010-0103 | G.E. CHEN MATL DEPT                        | • 0750          | 10-95-10    | X OS           | 5005-0  | 200                | 00/04              |       |            |         | A 11        | DL CDGF      |
|                                    | Get CHEN MATL DEPT                         | •0750           | 10-95-2     | X SS           | 4:00.0  |                    | 01/03              |       |            |         | 010         | DLCDGF       |
|                                    | G.E. CHEM MATL DEPT                        | • 0750          | 10-95-3     | Č.             | 20.00.0 |                    | 01/02              |       |            |         | 0           | DL COGF      |
| CENTR 2010-0103                    | Coro CHEM MAIL DEPT                        | •0750           | 10-95-4     | Š              | 2000.0  | 002                | 10/00              |       |            |         | A 11        | OL CD3F      |
| CENTR 2010-0103                    | C C CHER RAIL VEPI                         | 0520.           | 10-95-5     | X OS           | 2500.0  | 200                | 10/00              |       |            |         | A 11        | DL CDGF      |
| SEMUN 2010-0103<br>CEMON 2010-0103 | G.C. CHER MAIL DEPT<br>C.C. CLEM MATL DEPT | •0750           | 10-95-6     | Ř              | 3000.0  | 200                | 10/00              |       |            |         | <b>11</b> A | DLCDGF       |
| CEMPH 2010-0103                    | C.C. THEM MATI DEDT                        | 0270            |             |                | 0.0004  | 002                | 10/00              |       |            |         |             | CC COSF      |
| CERTE 2010-0103                    | C.E. CUER MAT DEDI                         | 0670.           |             | 33             | 0.0004  | 2002               | 10/00              |       |            |         | 4 11<br>V   | OL COGF      |
| CENTR 2012-10125                   | C.F. CHEM MAY DEPT                         | 0010.           | 10-01       |                |         | 200                | 10/00              |       |            |         | <           | DL CD CF     |
| GENCH 2012-10125                   | CAFA CHEM MATI DEPT                        |                 | 10-01       |                |         |                    |                    |       |            |         |             |              |
| GFMON 2012-L0125                   | G.F. CHEN MATI DEPT                        |                 | 10-04-01    |                |         |                    |                    | 740   | ~ ~ ~      |         | 2           |              |
| GENON 2012-L0125                   | CAFA CHEM MATH DEPT                        | .0750           |             | ŝ              |         |                    | 107.00             | 174   | 174        |         | 22          |              |
| GENON 2012-L0125                   | 6.E. CHEN MATL DEPT                        | •0750           | 10-96-6     | 88             |         |                    |                    |       |            |         |             |              |
| GEMON 2012-L0125                   | 6.E. CHEN MATL DEPT                        | .0750           | 10-96-5     | 20X            | 5000.0  |                    | 01/02              |       |            |         | 4           |              |
| GENON 2012-10125                   | G.E. CHEM MATL DEPT                        | •0150           | 10-96-6     | ×09            | 4000-0  | 200                | 00/01              |       |            |         |             |              |
| GENON 2012-L0125                   | G.E. CHEN MATL DEPT                        | • 0750          | 10-96-7     | COX<br>COX     | 5000.0  | 200                | 40/00              |       |            |         |             | M CDCF       |
| CENCH 3010                         | 6.E. CHEM MATL DEPT                        | •0150           | 10-87       | ŝ              | 2000.0  |                    | 10/00              |       |            |         | A 10        | DI CDG       |
| GENON 3010                         | G.E. CHEM MATL DEPT                        | • 0750          | 10-87-1     | 60 X           | 3000.0  |                    | 10/00              |       |            |         |             | DUCUGE       |
| GENON 3010                         | G.E. CHEM MATL DEPT                        | •0750           | 10-87-2     | õ              | 4000.0  |                    | 00/01              |       |            |         | A 10        | DL CDGF      |
| GERCH 3010                         | G-E- CHEN NATL DEPT                        | .0750           | 10-87-3     | 60 X           | 4500-0  |                    | 40/00              |       |            |         | A 10        | DLCCGF       |
|                                    | G.E. CHEM MATL DEPT                        | .0750           | 10-874      | š              | 0.0005  |                    | 01/03              |       |            |         | 01 0        | DLCCGF       |
| GENON JGIO                         | G.E. CHEN MATL DEPT                        | • 0750          | 10-87-5     | ×09            | 4000.0  | 200                | 10/00              |       |            |         | V II        | OL CDGF      |
|                                    | G.E. CHEM MATL D. PT                       | •0750           | I 0-87-6    | ŝ              | 4500.0  | 200                | 00/04              |       |            |         | A 11        | DI CUGE      |
| 55404 3010 × 4561 355 ×            | G.E. CHEM MATL DEPT                        | +0750           | 10-87-7     | XOS            | 5000.0  | 200                | 01/03              |       |            |         | 0 11        | DL CUSE      |
|                                    | CONCENTER AND UCK                          |                 | 6911-01     | xog            | 22°0    |                    |                    | 768   | 191        |         | 0           | DECOIL       |
|                                    | GAFA FUER MATE DEDT                        |                 |             |                | •       |                    |                    |       |            |         |             |              |

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| FGR S DESIGNATION                       | MANUFACTURER        | SPEC.<br>THICK. | TEST RPT ND. | TEST<br>ENVR | TEST<br>PRESS | TEST<br>TEMP     | I MP T<br>ENER | PEACT   | FLASH<br>POINT | FIRE D<br>PT D | ROP WT<br>IST LOSS | α          | 40<br>¥0                                                                                    | ۲ä      |
|-----------------------------------------|---------------------|-----------------|--------------|--------------|---------------|------------------|----------------|---------|----------------|----------------|--------------------|------------|---------------------------------------------------------------------------------------------|---------|
| ENON 3010 (.65GLASS)                    | G.E. CHEM MATL DEPT | •0150           | 10-1149-10   | Š            | 3500.0        |                  |                | 20/04   |                |                |                    | 4          | ත්<br>c                                                                                     | €D1A    |
| CHON 3010 (.656LASS)                    | G.E. CHEN MATL DEPT | • 0750          | 10-1769-11   | X09          | 4000.0        |                  |                | 01/03   |                |                |                    | 1 1        | റ്റ                                                                                         | CDIA    |
| CHON 3010 (.656LASS)                    | G.E. CHEM MATL DEPT | .0750           | 70-1769-12   | COX<br>SOX   | 4500.0        |                  |                | 01/03   |                |                |                    | -          | ы<br>В<br>о                                                                                 | VIOD    |
| ENDN 3010 1.656LASS)                    | G.E. CHEN MATL DEPT | •0150           | 70-1764-13   | COX<br>COX   | 5000.0        |                  |                | 40/40   |                |                |                    | -          | 800                                                                                         | CDIA    |
| ENDN 3010 1-550.455)                    | G.E. CHEM MATL DEPT | •0750           | 70-1769-14   | š            | 5000.0        |                  | 200            | 00/04   |                |                |                    | 4          | д<br>1                                                                                      | <01A    |
| CHON 3010 (.65GLASS)                    | G.E. CHEM MATL DEPT |                 | 70-1769-2    | CO X         | 50.0          |                  |                |         | 868            | 848            |                    | 0          | ದ<br>೯                                                                                      | COIA    |
| ENCN 3010 (.65GLASS)                    | 6.E. CHEM KATL DEPT |                 | 70-1769-3    | ŝ            | 62.0          | 1000             |                |         | 776            | 066N           |                    | <b>1</b> 7 | д<br>Б                                                                                      | CDIA    |
| HON 3010 (+55GLASS)                     | G.E. CHEN MATL DEPT |                 | 70-1769-4    | к0Э          | 100.0         |                  |                |         | 608            | 608            |                    | <b>1</b>   | ы<br>В                                                                                      | COIA    |
| MON 3010 (.656LASS)                     | G.E. CHEN MATL DEPT |                 | 70-1769-5    | š            | 165.0         |                  |                |         | 835            | 837            |                    | 0          | ъ<br>М                                                                                      | COLA    |
| CHON 3010 (.65GLASS)                    | G.E. CHEN MATL DEPT |                 | 70-1769-6    | COX          | 500.0         |                  |                |         | 503            | 503            |                    | 0          | ъ<br>В                                                                                      | 01 A    |
| ENTIN 3010 (.656LASS)                   | 6.E. CHER MATL DEPT |                 | 70-1769-7    | š            | 1000.0        |                  |                |         | 507            | 507            |                    | 0          | ชื่<br>ค                                                                                    | CU1A    |
| HON 3010 (*656LASS)                     | G-E. CHEN MATL DEPT |                 | 70-1769-8    | 60 X         | 1500.0        |                  |                |         | 396            | 396            |                    | 0          | а<br>в                                                                                      | CDIA    |
| 500 3010 (*656LASS)                     | G.E. CHEN MATL DEPT |                 | 70-1769-9    | Š            | 2000.0        |                  |                |         | 374            | 374            |                    | 0          | รี<br>ค                                                                                     | VIO:    |
| 9600-010E NONS                          | G.E. CHEM MATL DEPT |                 | 1-101-01     | GOX          | 25.0          | 1000             |                |         | 842            | 566N           |                    | ר<br>ר     | อีอ                                                                                         | VI0:    |
| ENDN 3010-0096                          | G.E. CHEM MATL DEPT | •0750           | 10-101-10    | XOS          | 3500.0        |                  |                | 00/01   |                |                |                    | -          | Б<br>о                                                                                      | CDIA    |
| 9600-010E NDH                           | G.E. CHEM MATL DEPT | .0750           | 10-101-01    | 60X          | 4000-0        |                  |                | 00/04   |                |                |                    | •          | ชี<br>0                                                                                     | ¥100    |
| FION 3010-0096                          | G.E. CHEN MATL DEPT | •0750           | 10-101-12    | ŝ            | 4500.0        |                  |                | 01/02   |                |                |                    | 0          | ਤੋਂ                                                                                         | SDIA    |
| ENCN 3010-0096                          | G.E. CHEN MATL DEPT | • 0750          | 10-101-13    | ×09          | 5000.0        |                  |                | 01/02   |                |                |                    | 0          | 30                                                                                          | C01A    |
| RUN 3010-0096                           | G.E. CHEM MATL DEPT | •0750           | 10-101-14    | ž            | 4000+0        |                  | 200            | 10/00   |                |                |                    | 1 4        | 8                                                                                           | A100    |
|                                         | G.E. CHEN MATL DEPT | · 0750          | 10-101-15    | 60 X         | 5000.0        |                  | 200            | 00/04   |                |                |                    | -          | 2                                                                                           | CDIA    |
| ENDN 3010-0096                          | G.E. CHEN MATL DEPT |                 | 10-101-2     | ž            | 50.0          |                  |                |         | 633            | Efé            |                    | 0          | Ē                                                                                           | VI OC   |
| CHON 3010-0096                          | G-E- CHEM MATL DEPT |                 | IO-101-3     | COX<br>COX   | 50.0          |                  |                |         | 763            | 763            |                    | 0          | E<br>B                                                                                      | CDIA    |
| ENDN 3010-0069                          | G.E. CHEN MATL DEPT |                 | 10-101-01    | ž            | 100.0         |                  |                |         | 134            | 734            |                    | 6          | ਤੇ<br>ਨ                                                                                     | COIA    |
| 5HON 3010-0096                          | 6.E. CHEN MATL DEPT |                 | 10-101-5     | X09          | 500.0         |                  |                |         | 656            | 656            |                    | 0          | E<br>m                                                                                      | C01A    |
| ENGN 3010-0046                          | G.E. CHEM MATL DEPT |                 | 9-101-01     | ×03          | 1000.0        |                  |                |         | 657            | 657            |                    | 0          | М<br>М                                                                                      | CDIA    |
| 2600-010E NOID                          | G.E. CHEN NATL DEPT |                 | 10-101-7     | KO3          | 1500.0        |                  |                |         | 418            | 418            |                    | 0          | Ĩ                                                                                           | CO1A    |
| SNON 3010-0096                          | G.E. CHEN NATL DEPT |                 | 10-101-8     | Š            | 2000.0        |                  |                |         | 369            | 369            |                    | 0          | ਤੋਂ<br>ਜ                                                                                    | 011A    |
| NGN 3010-0096                           | G.E. CHEN MATL DEPT | • 0750          | 6-101-01     | KO XO S      | 2500.0        |                  |                | 10/00   |                |                |                    | 4          | 1<br>1<br>0                                                                                 | COIA    |
| LASS FAB 3-DIM                          | MOVEN PRODUCTS      | •0750           | 10-98        | Š            | 4000-0        |                  |                | 0/01    |                |                |                    | 4          | 110 0                                                                                       | XXVI    |
| LASS FAB 3-DIM                          | MOVEN PRODUCTS      | • 0750          | 1-86-01      | X OS         | 4500.0        |                  |                | 00/01   |                |                |                    | <          | 0.3F                                                                                        | XXV     |
| LASS FAB 3-DIM                          | WOVEN PRODUCTS      | •0150           | 10-98-2      | ŝ            | 5000.0        |                  |                | 20/04   |                |                |                    | ~<br>~     | 96                                                                                          | XXVI    |
| LASS FAB 3-DIM                          | MOVEN PRODUCTS      | • 0750          | E-86-01      | X OS         | 4000.0        |                  | 200            | 10/00   |                |                |                    |            | 11<br>10<br>10<br>10                                                                        | XXVI    |
|                                         | RUVEN PRUDUCIS      | 0610.           |              |              |               | 200              | 200            | +(./nii |                |                |                    | < ,        | ₽.<br>•                                                                                     |         |
|                                         | COMMING 6LASS       |                 | 102-12       |              | 800.0         | 4<br>7<br>7<br>7 |                |         |                |                |                    | - •        |                                                                                             | 222     |
| - 12 - 22 - 22 - 22 - 22 - 22 - 22 - 22 |                     |                 |              |              |               |                  |                |         |                |                |                    | - 1        | 5<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                                        |         |
| LASS TKJI<br>1 Act 1105 1100110         | LUKNING BLASS       |                 | /1-2663      |              |               |                  |                |         |                |                |                    | F          | <b>1</b>                                                                                    |         |
| U4702 1475 1160140                      |                     |                 | 2662-11      | Ē            |               |                  |                |         |                |                |                    | - 1        |                                                                                             | 6 U A A |
| LASS TAPE 1180140                       | INSULECTRO CORP     |                 | 71-2552-1    |              |               | 115              |                |         |                |                |                    |            | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 |         |
| LYFIAL LCUI                             | Gete CHER HAIL DEP  |                 | 1192-11      |              |               | С 4<br>С 4       |                |         |                |                |                    | - 1        | <pre>k</pre>                                                                                | XXDE    |
| LVPTAL 1201                             | G.E. CHEM MATL DEPT |                 | 71-2671-1    | 0¥           | 0.65          | 115              |                |         |                |                |                    |            | 5 41                                                                                        | XXOV    |
| LYPTAL 1201                             | G.E. CHEM MATL DEPT |                 | 71-2671-2    | Ĩ            | 148.0         | 518              |                |         |                |                |                    | -          | 5 AT                                                                                        | ADXX    |
| LVPTAL 1201                             | 6.E. CHEM MATL DEPT |                 | 71-2671-3    | INI          | 7' 1.0        | 522              |                |         |                |                |                    |            | 5 AT                                                                                        | ADXX    |
| DLD ALLOY 561                           | HANDY AND HARMON    |                 | 70-2139      | Š            | 45 30.0       |                  |                | 00/07   |                |                |                    | 4          | o<br>Ŧ                                                                                      | NUMR    |
| <b>JLD ALLOY 581</b>                    | HANDY AND HARMON    |                 | 70-2139-1    | A-50         | 801.0         | 513              |                |         |                |                |                    | L<br>L     | υ<br>Ψ                                                                                      | MUNR    |

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|-----------------------------------------------------|--------------------------------------------|-----------------|------------------------|--------------|---------------|--------------|----------------|----------------|------------------|------------|----------------|-----------|--------------|-------------------------------------------|-----------|
| MFGA S DESIGNATION                                  | + HANUFACTURER                             | SPEC.<br>THICK. | TEST RPT NO.           | TEST<br>ENVR | TEST<br>PRESS | TEST<br>TEMP | I MP T<br>Ener | NO OF<br>React | FL A SH<br>PUINT | FIRE<br>PT | PR0P<br>0157 L | WT<br>055 | я н<br>ד ד   | ΞŪ                                        | ATL<br>DE |
| GOLD ALLUY 501                                      | HANDY AND HARHON                           |                 | 70-2139-2              | A-50         | 0.693.0       | 487          |                |                |                  |            |                |           | Ţ            | ι<br>Σ                                    | NUN.      |
| GOLD TEFLON WIRE INSUL                              |                                            |                 | . u-1750               | X09          | 0.5           | 1000         |                |                | 605              | 666N       |                |           | а<br>1       | ц<br>Б                                    | CNG.      |
| COLD TEFLON WIRE INSUL                              |                                            |                 | 70-1750-10             |              | 0.02          | 1000         |                |                | 016              | N0C0       |                |           | יי<br>ל ר    | ີພູມີ<br>ຫຼື                              | SCNG.     |
| COLD TEFLON WIRE INSUL                              |                                            |                 | 70-1750-2              | Ň            | 50.0          | >>>          |                |                | 652              | 652        |                |           |              | ม่นี้<br>กศ                               |           |
| COLD TEFLON WIRE INSUL                              |                                            |                 | 70-1750-3              | 60X          | 100.0         |              |                |                | 654              | 654        |                |           | 0            | i<br>B<br>M<br>M                          | CNG.      |
| COLD TEFLON WIRE INSUL                              |                                            |                 | 70-1750-4              | š            | 500.0         |              |                |                | 634              | 634        |                |           | 0            | ີພິ                                       | CNG.      |
| GOLD TERLON WIRE INSUL                              |                                            |                 | 70-1750-5              | 20X          | 1000.0        |              |                |                | 621              | 621        |                |           | 0            | э<br>6                                    | °CNG.     |
| COLD TEFLON WIRE INSUL                              |                                            |                 | 70-1750-7              | x 29         | 2000-0        |              |                |                | 735              | 735        |                |           |              | 0.0<br>1.0<br>1.0                         | SCNG.     |
| COLD TEPLON WIRE INSUL                              |                                            |                 | 70-1750-8              | ŝŝ           | 50.0          |              |                |                | <b>904</b>       | 146        |                |           |              |                                           | S N D     |
| COLD TERLON WIRE INSUL                              |                                            |                 | 70-1750-9              | COX<br>COX   | 6.2           | 1000         |                |                | 666.             | 666N       |                |           |              |                                           | CNG       |
| . GOLU-FINE                                         |                                            |                 | 70-2125-1              | A-50         | 767.0         | 515          |                |                |                  |            |                |           | -            | 5 01                                      | ŝ         |
|                                                     |                                            |                 | 70-2125-2              | A-50         | 764.0         | 515          |                |                |                  |            |                |           | -            | 5 01                                      | NUX N     |
|                                                     | ·                                          |                 | 70-2125-2              |              |               | 5 27         |                |                |                  |            |                |           |              | 50                                        |           |
| COLO.FINE                                           | GAC .                                      |                 | 70-2125                | i s          | 2000.0        | 170          |                | 70,00          |                  |            |                |           | - <          | 56                                        |           |
| GP-2 DANPING SHEET                                  | SOUND COAT CO. INC                         |                 | 71-2346                | ŝ            | 5.0002        | 600          |                |                | N600             | 009N       |                |           | 4            | 20                                        |           |
| H-31 PYRONAT                                        | CARPENTER TECH CORP                        |                 | 71-2376                | ŝ            | 500.0         |              | 50             | 00/04          |                  | 2          |                |           | i<br>> ≪     |                                           | (X I H)   |
| H-II PYROMAT                                        | CARPENTER TECH CURP                        |                 | 71-2376-1              | X 05         | 500.0         |              |                | 00/04          |                  |            |                |           | 4 1          | Ш<br>Х                                    | (XIW)     |
| H-11 PYKUMAI                                        | CARTENTER LECH CORP<br>Laborated tech corp |                 | 71-2376-2              |              | 828.0         | 517          |                |                |                  |            |                |           |              | χ:<br>ω                                   |           |
|                                                     | LANTENTER IEUN UURT<br>Havber eteilite fä  |                 | 71-25/0-5              |              | 0.187         | 114          | C<br>U         | 10100          |                  |            |                |           | - •          | ω.<br>ω.                                  |           |
| HASTEL OV-N                                         | MANNES SIELLITE CO                         |                 | 71-2500-1              | ŝ            |               |              | 20             |                |                  |            |                |           | •            |                                           |           |
| HAVNES STELLITE NO. 3                               | GAC                                        |                 | 70-2171                | ŝ            | 5000.0        |              | 50             | 40/00          |                  |            |                |           | ~ -          |                                           |           |
| HATNES 25-HTLA                                      | HAYNES ALLOY CORP                          |                 | 71-2340                | A-50         | 785-0         | 503          | R              | 2000           |                  |            |                |           | •            | 5 C<br>4 W                                |           |
| HATTLE 25-HTLA                                      | HAYNES ALLOY CORP                          |                 | 71-2340-1              | A-50         | 741.0         | 0.04         |                |                |                  |            |                |           | هت ه<br>سر ، | 50                                        | HOH       |
| HI-TENP INSULATION MIN-                             | -KFANSTEEL CORP                            |                 | 71-2363                | GOX          | 500.0         |              | 50             | 00/04          |                  |            |                |           | <b>4</b>     | с<br>г                                    | COX:      |
| HI-TERP INSULATION MIN                              | -KFANSTEEL CORP                            |                 | 71-2363-1              | ×03          | 500.0         |              |                | 00/04          |                  |            |                |           | -<br>-       | č<br>o                                    | (XnS)     |
| FI-TERP INSULATION MIN-<br>HI-TERP INSIR AT ON MIN- | -KFANSTEEL CORP<br>KFANSTEFI CORP          |                 | 71-2363-2              | ×09          | 1000.0        | 1000         |                |                | 666N             | 666N       |                |           | <            | č.<br>m                                   |           |
| HIGH VACUUM GREASE                                  | DOW CORNING CORP                           |                 | 71-2766                | x og         | 500.0         |              | 50             | 00/00          |                  |            |                |           |              |                                           |           |
| HIGH VACUUM GREASE                                  | DOW CORNING CORP                           |                 | 71-2766-1              | Š            | 500.0         |              |                | 00/00          |                  |            |                |           | •            | 30                                        | ž         |
| HS-248-2 AMS-5508                                   | GAC                                        |                 | 70-2148                | GOX          | 2000.0        |              |                | 00/04          |                  |            |                |           | A            | 10 0                                      | HQH       |
| HS-248-2 AMS-5508                                   | GAC                                        |                 | 70-2148-1              | X 09         | 2000.0        |              | 50             | 00/04          |                  |            |                |           | A l          | 10<br>1                                   | HOW       |
| HS-248-41 AMS-5508<br>MS-248-41 AMS-5608            | 5AC                                        |                 | 70-2146                | × 200        | 2000.0        |              | e              | 00/04          |                  |            |                |           | بة.<br>م     | 0                                         | HOR       |
| HS240-4 ANS-5508<br>Lungeane dai viime 443          | GAL<br>Madyrei i Edany a Cons              |                 | 71-2146-1              | Š            | 2000.0        |              | 20             | 00/04          | 000              | 000        |                |           | ~ ;<br>< ;   |                                           | HON       |
| HYGRADE POLYTUBE 463                                | MARKELLE FRANK + SONS                      |                 | 11-2250-1<br>71-2250-1 | x X<br>G     | 1500.0        |              | 5              | 407 00         | 067              | 167        |                |           |              | 11 <b>1</b><br>11 <b>1</b><br>11 <b>1</b> |           |
| HYGRADE POLYTUBE 463                                | MARKEL .L. FRANK + SONS                    |                 | 71-2250-2              | x og         | 1500.0        |              |                | 10/10          |                  |            |                |           | 4<br>L       |                                           | BGX       |
| HYSOL C. 4                                          | HYSOL CORP                                 |                 | 71-2499                | Š            | 1000.0        | 1000         |                |                | 666N             | 666Z       |                |           | 7            | ₩<br>E                                    | KBG X     |
|                                                     | HYSOL CORP<br>UVEN: FORD                   |                 | 71-2499-1              | x 09         | 1500.0        |              | 0              | 00/00          |                  |            |                |           | 4 F          | J AK                                      | (EGX)     |
| HYSOL EPOXY                                         | HYSOL CORP                                 |                 | 70-1364                | A-50         | 150.0         | 531          |                | 10/10          |                  |            |                |           |              | ຈື່ມ.<br>ວິທີ                             |           |
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|----------------------------|----------------------------|-----------------|---------------|--------------|-----------------|--------------|----------------|--------------------|-------|------------------|--------|-----|----------------|--------------|
| HFGR S DESIGNATION         | MANUFACTURER               | SPEC.<br>THICK. | TEST RPT NO.  | TEST<br>ENVR | TE ST<br>PRE SS | TEST<br>TEMP | I MP T<br>ENER | NO DF 1<br>REACT 1 | -LASH | FIRF PS<br>PT D1 | HIP WT | α – | ¥ U            | LTL<br>DE    |
| HYSOL EPCXY                | HYSOL CORP                 |                 | 70-1964-1     | A-50         | 480.0           | 465          |                |                    |       |                  |        | -   | IS FJ          | BAXX         |
| HYSOL EPOXY                | MYSOL CORP                 |                 | 70-1964-2     | A-50         | 640.0           | 533          |                |                    |       |                  |        | -   | s<br>T         | BAXX         |
| LYSOL EPOXY                | HYSOL CORP                 |                 | 70-1964-3     | A-50         | 806.0           | 629          |                |                    |       |                  |        |     | 2 .<br>.: !    | BAXX         |
| HYSOL EPOXY                | HYSOL CORP                 |                 | 20-1964-4     | A-50         | 265.0           | 401          |                |                    |       |                  |        | -   | J.             | BAXX         |
| HYSOL K7-5223              | HYSOL CORP                 |                 | 70-2127       | ŝ            | 8 ° 7           | 1000         |                | -                  | 6667  | 066N             |        | α   | 6 .            | RCXX         |
| INCONEL ALLOY 706          | INTERNATIONAL NICKEL CO    | •               | 71-2498       | 60X          | 1500.0          |              | 50             | 00/04              |       |                  |        | 4   | ð<br>-         | JMMC         |
| INCONEL ALLOY 706          | INTERNATIONAL MICKEL CO    |                 | 71-2498-1     | COX          | 1500.0          |              |                | 00/04              |       |                  |        | 4   | 0              | N NC         |
| INCONEL FILLER 92T         | INTERNATIONAL NICKEL CO    |                 | 71-2390       | A-50         | 570.0           | 463          |                |                    |       |                  |        |     | 5              | ND.X         |
| INCONEL FILLER 92T -       | INTERNATIONAL NICKEL CO    |                 | 71-2390-1     | A-50         | 775.0           | 767          |                |                    |       |                  |        | F I | 5              | XON          |
| INCONEL FILLER 92T         | INTERNATIONAL NICKEL CO    | •               | 71-2390-2     | A-50         | 768.0           | 212          |                |                    |       |                  |        | - 1 |                | XX()H        |
| INCONEL FILLER 927         | INTERNATIONAL NICKEL CO    | •               | 71-2390-3     | INN          | 74.0            | 523          |                |                    |       |                  |        | ⊢ ı |                | 2            |
| INCONEL FILLER 92T         | INTERNATIONAL NICKEL CO    | •               | 71-2390-4     | III          | 816.0           | 532          |                |                    |       |                  |        | - 1 | 20             | XXON         |
| INCOVEL X                  | INTERNATIONAL NICKEL CO    | •               | 70-2032       | A-50         | 744.0           | 508          |                |                    |       |                  |        | -   | 5              | XXXX         |
| INCONEL X                  | INTERNATIONAL NICKEL CO    | •               | 70-2032-1     | A-50         | 803.0           | 52R          |                |                    |       |                  |        | F   | è<br>S         | インスモ         |
| INCOMEL X-750              | INTERNATIONAL NICKEL CO    | •               | 70-2144       | ХOS          | 5000.0          |              |                | 00/04              |       |                  |        | <   | 5              | XXNW         |
| INCONEL X-750              | INTERNATIONAL NICKEL CO    |                 | 70-2144-1     | CCX          | 6800.0          |              |                | 00/00              |       |                  |        | 4   | 0              | XXNM         |
| INCONEL X-750              | INTERNATIONAL NICKEL CO    | •               | 70-2144-2     | A-50         | 754.0           | 500          |                |                    |       |                  |        | -   | [5 OF          | XXNH         |
| INCONEL X-750              | INTERNATIONAL NICKEL CO    | •               | 70-2144-3     | A-50         | 689.0           | 164          |                |                    |       |                  |        | -   | 50             | XXNM         |
| INCONEL 718                | GAC                        | .0750           | 70-2142       | 60X          | 2000.0          |              | 50             | 00/07              |       |                  |        | 4   | LI<br>CI       | XXX          |
| ENCONEL 718                | GAC                        |                 | 70-2142-)     | <b>20X</b>   | 5000.0          |              |                | 00/04              |       |                  |        | 4   | 0              | XXNM         |
| THCONEL 718                | GAC                        |                 | 70-2142-2     | Š            | 6800.0          |              |                | 00/04              |       |                  |        | 4   | 6<br>0         | XXNW         |
| INCONEL 718                | GAC                        |                 | 70-2142-3     | X O S        | 5050.0          |              | 50             | 00/04              |       |                  |        | 4   |                | XXN          |
| INDIUM BISMUTH AND C       | U BEMSFC                   |                 | 70-2043       | Š            | <b>6.</b> 2     | 1000         |                | _                  | 6667  | 6662             |        | >   | HA El          |              |
| INDIUM BISNUTH AND CI      | C BEMSP                    | 1               | 70-2043-1     | ×09          | 16.5            | 1000         |                | -                  | 6667  | 666N             |        | >   | 19<br>19<br>19 | 1F 2MC       |
| INVAR 36                   | ALLEN FRY STEEL CO.        | •0750           | 70-2206       | Š            | 1500.0          |              |                | 00/04              |       |                  |        | ۹   |                | XXZI         |
| INVAR 36                   | ALLEN FRY STEEL CO.        | .0750           | 70-2206-1     | <u>60x</u>   | 1500.0          |              | 50             | 70/00              |       |                  |        | 4   | -0<br>1        | XXNM         |
| INVAR 36                   | GAC                        | •0750           | 70-21()9      | ŝ            | 2500.0          |              | 50             | 00/04              |       |                  |        | 4   |                | NI N         |
| TOR RED FIBER SHEET        |                            |                 | 51-11.69-dS   | 60X          | 100.0           |              |                |                    | 364   | 364              |        | 0   | 13 CH          | BGXX         |
| IOR RED FIBER SHEET        |                            |                 | SP-6931-16    | Š0           | 500.0           |              |                |                    | 265   | 265              |        | ۵   | ີ້ນ<br>ຄ       | t BG X X     |
| IOR RED FIBER SHEET        |                            |                 | SP-6931-17    | X OS         | 20.0            |              |                |                    | 427   | 427              |        | 0   | ີ<br>ຊີ        | BGXX         |
| K-602 STEEL                | KE ANAMETAL                | •0750           | 70-2217       | X 09         | 1500.0          |              | 4              | 40/00              |       |                  |        | 4   |                | MDXX<br>MDXX |
| K-602 STEEL<br>V-603 STEEL | KENNANE TAL<br>Vennane tai |                 | 71-221        | ŝ            | 1500.0          |              | 06             | 40/00              |       |                  |        | 4 < |                |              |
| V-DUC JICCL<br>V_ANJ CTEEJ | NEMMANE TAL                |                 | 71-2266-1     | X C S        | 500.0           |              | 50             | 10/00              |       |                  |        | -4  |                | XXQM         |
| K-602 STFFL                | KERNAME TAL                |                 | 71-2266-10    | X OS         | 1000-0          |              | 200            | 10/10              |       |                  |        | -   |                | XXOH         |
| K-602 STEFL                | KEMNAME TAL                |                 | 71-2266-2     | COX          | 1000.0          |              | 50             | 10/00              |       |                  |        | 4   | 11 0           | XXQMI        |
| K-602 STEEL                | KENNAP' TAL                |                 | 71-2266-3     | ХOЭ          | 1500.0          |              | 50             | 01/00              |       |                  |        | 4   | 11 04          | X X Q N H    |
| K-602 STEEL                |                            |                 | 71-2266-4     | 60 X         | 3000.0          |              | 50             | 00/03              |       |                  |        | ٩   | 10             | XXQM         |
| K-602 STEEL                | <b>KENNAMETAL</b>          |                 | 71-2266-5     | š            | 500.0           |              | 200            | 02/05              |       |                  |        | -   | 6<br>11        | XXQH         |
| K-602 STEEL                | KENNAME TAL                |                 | 71-2266-6     | č            | 1000.0          |              | 200            | 01/05              |       |                  |        | 1   | 10<br>11       | XXOW         |
| K-602 STEEL                | X FINN ANE HAL             |                 | 71-2266-7     | F OX         | 14.7            |              | 20             | 40/00              |       |                  |        | <   | 19<br>19       | XXOW         |
| K-602 STEEL                | XENNAR TAL                 |                 | 71-2266-8     | 202          | 14.7            |              | 200            | 00/04              |       |                  |        | 4 ه |                | XX OM        |
| K-602 STEEL                | KENNARFIAL                 |                 | 1-2002-11     |              | 1000.0          | 000.         | 5              | 10/10              |       | 00014            |        | ~ ~ |                |              |
| KAPTON H-FILM              | E.I. DUPUNI CU IMC.        |                 | 2611-01       | 200          | 2.0             | 2001         |                |                    | 260   | 5552             |        | ¥   | ц<br>ст        | 16010        |

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| FCA S DESIGNATION | MANUFACTURER           | SPEC. | TET RPT NO. | TEST       | TEST   | TEST        | I MP T<br>ENED | NO 0F | FLAS4   | FIRE Pr | 20P WT | ∝ ⊷        | MATCO<br>MATCO |
|-------------------|------------------------|-------|-------------|------------|--------|-------------|----------------|-------|---------|---------|--------|------------|----------------|
|                   |                        |       |             |            |        |             |                |       |         | 2       |        | •          |                |
| APTON H-FILM      | E-1+ DUPONT CO-, INC.  |       | 70-1752-1   | Ň          | 25.0   | 1000        |                |       | BOOR    | 000N    |        | -          | 3 FJCC         |
| APTON N-FU H      | Est DIMPANT CO. INC.   |       | 70-1762-2   | XU3        |        |             |                |       |         | 710     |        | 6          |                |
| APTON M-FILM      | F.I. DIPUNT CO. INC.   |       | 70-1762-2   |            |        |             |                |       |         |         |        | 2          |                |
|                   |                        |       |             |            |        |             |                |       |         |         |        | ₽,         |                |
|                   |                        |       | 4-2611-01   | 203        | 100.0  |             |                |       | 4       | 0 t t   |        |            |                |
|                   | E-I- DUPONI CO- INC.   |       | 70-1752-5   | ŝ          | 500.0  |             |                |       | 579     | 579     |        | 0          | 3 EJCC         |
| APTON H-FILM      | E -I - DUPONT CONC.    |       | 70-1752-6   | 60X        | 1000.0 |             |                |       | 492     | 492     |        | ۵          | 3 E )CC        |
| APTON H-FILM      | E.I. DUPONT CO., INC.  |       | 70-1752-7   | ع          | 1500.0 |             |                |       | 535     | 535     |        | 0          | 3 EJCI         |
| APTON H-FILM      | E.I. DUPONT COINC.     |       | 70-1752-8   | 60X        | 2000-0 |             |                |       | 541     | 541     |        | c          |                |
| APTON H-FILM      | E.I. DUPDHT CO. INC.   |       | 70-1752-9   | X          | 16:55  | 1000        |                |       | 0000    | 0000    |        | 9          |                |
| APTON H-FILM      | E.I. DUPTINT CO. INC.  |       | 70-1001     | E D X      | 0.0001 | 2           | 50             | 70700 |         |         |        |            |                |
| APTON NUE TO N    | E.T. DUDNY CO. INC.    |       | 71-1001     | 200        |        |             | 2              |       |         |         |        | <b>c</b> + |                |
|                   |                        |       |             |            |        |             | C<br>L         |       | <b></b> |         |        |            |                |
|                   | Cale UNTURY CUERTER    | 0360  |             |            |        |             | 20             | 40,00 |         |         |        | 4          |                |
|                   |                        |       |             |            |        |             |                | 10,00 |         |         |        | α,         |                |
|                   | E-I + DUPONI CO++IMC+  |       | 10-1991-3   | 20X        | 100.0  |             |                |       | 400     | 466     |        | ۵          |                |
| APTON NOFILM      | E.I. DUPONT CO. INC.   |       | 70-1991-4   | Š          | 1500.0 |             |                |       | 374     | 374     |        | ۵          | 3 040          |
| APTON H-FILM      | E-I- DUPONT COINC-     |       | 70-1991-5   | X09        | 1500.0 |             | 50             | 00/04 |         |         |        | ◄          | L CKCC         |
| APTON N-FILM      | E.I. DUPONT COINC.     |       | 71-2431     | A50        | 723.0  | 693         |                |       |         |         |        | -          | 5 FJCI         |
| APTON H-FILM      | E+I+ DUPONT CO++INC+   |       | 71-2431-1   | A-50       | 831.0  | 509         |                |       |         |         |        | -          | 5 FJCL         |
| APTON H-FILM      | E.I. DUPONT CO. INC.   |       | 71-2431-2   | A-50       | 751.0  | 516         |                |       |         |         |        | +          | 5 FJCC         |
| EL-F-81           | BH CO. ST. PAUL        |       | M9-0296     | COX        | 5.0    | 1000        |                |       | 870     | 666N    |        |            | 3 DKBC         |
| EL-F-81           | <b>BM CD. ST. PAUL</b> |       | M9-0296     | Ň          | 4500.0 |             | 50             | 00/04 |         |         |        | 4          | 1 DKB          |
| EL-F-81           | <b>3M CD. ST. PAUL</b> |       | M9-0296     | 60X        | 4000.0 |             |                | 02/02 |         |         |        | -          | O DKBC         |
| SEL-F-81          | 3M CO. ST. PAUL        |       | H9-0296-1   | ŝ          | 10.0   | 1000        |                |       | 89 0    | 606N    |        |            | 3 DKBC         |
| EL-F-81           | BH CD. ST. PAUL        |       | M9-0296-10  | C0X        | 0.0111 |             |                |       | 655     | 655     |        | 0          | 3 DKBC         |
| EL-F-81           | 3M CD. ST. PAUL        |       | M9-0296-11  | Š          | 1500.0 |             |                |       | 69.8    | 999     |        | ٥          | 3 OK.BT        |
| EL-F-81           | 3M CD. ST. PAUL        |       | M9-0296-12  | 60 X       | 2000.0 |             |                |       | 705     | 706     |        | - c        | 3 DKBC         |
| EL-F-01           | AM CO. ST. PAUL        | .0750 | M9-0296-13  | XOS        | 4000-0 |             |                | 02/02 | )       |         |        | -          | O DE BC        |
| EL-F-B]           | BN CO. ST. PAUL        | .0750 | M9-0296-14  | COX<br>COX | 4500.0 |             | 05             | 00/04 |         |         |        | 4          | 1 DKB          |
| EL-F-81           | 3M CO. ST. PAUL        |       | M9-0296-15  | EOX        | 1500-0 |             |                | 00/07 |         |         |        |            |                |
| EL-F-81           | 34 CO. ST. PAUL        |       | M9-0296-16  | COX CO     | 6.9    | 1000        |                |       | 000N    | 0000    |        | L LL       | 3 DKBC         |
|                   | <b>3M CD. ST. PAUL</b> |       | M9-0296-17  | Š          | 3000.0 | )<br>)<br>( |                |       | 629     | 629     |        | . 0        | 3 DKBC         |
| EL-F-81           | BH CO. ST. PAUL        |       | M9-0296-13  | COX        | 5000.0 |             |                | 10/10 | 1       | 1       |        |            | O DKBC         |
| EL-F-61           | <b>BM CD. ST. PAUL</b> |       | M9-0296-19  | ×09        | 4500.C |             |                | 01/01 |         |         |        | -          | D DKRC         |
| EL-F-81           | TH CO. ST. PAUL        |       | M9-0296-2   | COX        | 20.0   | 1000        |                |       | 850     | 000N    |        |            | 3 DKBC         |
| EL-F-81           | BH CO. ST. PAUL        |       | M9-0296-20  | ×09        | 4000-0 |             |                | 10/10 |         |         |        | -          | O DKBC         |
| EL-F-81           | 3M CO. ST. PAUL        |       | M9-0296-21  | X09        | 3000-0 |             |                | 10/10 |         |         |        | -          | O DKAL         |
| :EL-F-81          | 3M CD. ST. PAUL        |       | M9-0296-22  | õ          | 2500.0 |             |                | 10/10 |         |         |        |            | 0 0480         |
| EL-F-BI           | 3H CO. ST. PAUL        |       | M9-0296-23  | 60 X       | 2000-0 |             |                | 01/03 |         |         |        | -          | O DKR          |
| EL-F-01           | 3M CO. ST. PAUL        |       | M9-0296-24  | Š          | 1500.0 |             |                | 10/10 |         |         |        |            | 0 DKBC         |
| EL-F-01           | BN CO. ST. PAIN        |       | M9-0296-25  | 60X        | 1000.0 |             |                | 00/04 |         |         |        | 4          | O DXBC         |
| 1 <b>61-F-8</b> 1 | 3M CO. ST. FAUL        |       | M9-0296-3   | X03        | 25.0   | 1000        |                |       | 161     | 666N    |        | -)         | 3 DKBC         |
| (fl-f-81          | 3M CO. ST. PAUL        |       | M9-0296-4   | 60X        | 30.0   | 1000        |                |       | 760     | 000N    |        |            | 3 DKBC         |
| [E[F-8]           | <b>BM CO. ST. PAUL</b> |       | M9-0296-5   | š          | 40.0   | 1000        |                |       | 79.0    | 000N    |        |            | 3 DKBC         |
|                   |                        |       |             |            |        | •           |                |       | ;       |         |        |            |                |

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DTMDXX DTMDXX DTMDXX CTMDXX 088PXX FKXXXX FKXXXX XXXXX DKBDXX CXONTO DKBOXX 0X80XX 0K80X3 **DKBOXX** OKBO X) OK8DXX FKXXXX UKBDXX DKBDX) MATL 25 8 5 5 PAGE 0 O, 0 00 1222 000 13 00000000 --œ FIRE PROP WT PT DIST LOSS 768 N999 666N 065N 681 676 702 497 FLASH POINT 768 570 590 666N 581 676 702 475 72 JAN JAN 00/04 01/03 ND OF REACT 00/04 01/04 00/04 00/04 00/04 01/03 01/03 01/03 01/03 01/03 00/04 00/04 01/01 00/04 00/04 00/04 01/02 01/01 01/01 01/01 01/01 00/04 00/04 02/04 I MP T E NER MATERIAL TEST DATA BY MANUFACTURER S DESIGNATION AS DF 20 3 50 50 20 3 20 1000 000 502 495 523 509 0001 TEST TEMP +000.0 +500.0 1000.0 +500.0 +500.0 +1000.0 100.0 100.0 100.0 100.0 100.0 100.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000.0 1000 TEST PRESS TES T ENVR ş 

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 TEST RPT • 0050 • 0050 • 0050 • 0050 •0050 •0050 •0050 •0050 •0050 •0050 0750 SFEC. MESTINGHOUSE ELECTRIC MESTINGHOUSE ELECTRIC MESTINGHOUSE ELECTRIC MESTINGHOUSE ELECTRIC MESTINGHOUSE ELECTRIC EC TR I EC TRI ÿ <u>v</u>vvv INC. ELECTR1 <u>v</u> v v v CO++INC. 99999 99999 00 C0..1 C0--1 0...1 CO .. 1 00 5 -- 000 ...... CC: ST. PAUL CO: ST. PAUL <u>.</u> MANUFAC TURER L HOHI **SUOM** BORCEN IND. E+1+ LXPONT ST INGHOUS NOADO 8 **WILTON** õ : ŝ Ś 571 2 2 8 81370-31H 61370-3 CLEAR CLEAR CLEAR CLEAR CLEAR CLEAR MFGN S DESIGNA ( ION SVSK SVSK KE-F-01 KE-F-0 61-13 XVEVI VVEVI 143AX 240AB 24048 24048 24048 24048 24048 24048 24048 24048 24048 24048 24048 24048 **RO** 43A KAYTOX KRYTOX KRYTOX KRYTOX KRYTOR KRYYBK KRY'9K KRV70X **KRYTOX KRYTOX** KAVIBK KAYIGI

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| CHTTR         ZetAC         E11         DUMBRIT         Constrained         DOL 0         DOL 0 <thdol 0<="" th="">         DOL 0         DOL 0</thdol>                                                                                                                                                                                                                                                                                                                                                          | MFGA 5 DESIGNATIO | WAMU WAMU | FACTUREF  | ~            | SPEC.<br>THICK. | TEST RPT NO.        | TEST<br>EN JR | TEST<br>PRESS | TEST<br>TEMP | I MP T<br>ENER | NO OF<br>REACT | FLASH<br>POINT | FJRE<br>PT | PROP<br>DIST L | MT OSS |              | MATL<br>CODE      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|-----------|--------------|-----------------|---------------------|---------------|---------------|--------------|----------------|----------------|----------------|------------|----------------|--------|--------------|-------------------|
| CHTUR:         Construct         C                                                                                                                                                                                                                                                 | KRYTOX 240AC      | E.1.      | TNOAUD    | CO++1NC+     |                 | 01-9461-69          | X09           | 9.00.6        |              |                |                | 80 Z           | 802        |                | -      | 0 13         | DE3PXX            |
| KUTTRR         ZAMC         E11 OPFONT         CONTRC         F11 OPFONT         F                                                                                                                                                                                                                                                 | KRYTOX 240AC      | £.1.      | DUPONT    | CO++ ENC+    |                 | 69-1346-11          | 60X           | 1000.0        |              |                |                | 750            | 750        |                | -      | 13           | 088PXX            |
| CUTTOR         Construct         Set-134e-13         COX         1000         733           CUTTOR         Construct         Set-134e-13         COX         1500         900         900         900           CUTTOR         Construct         Set-134e-13         COX         1500         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900         900                                                                                                                                                                                                                                                                                                                                                                                                                                                    | KRYTOX 240AC      | E+1.      | DUPONT    | COINC.       |                 | 69-1346-12          | ×09           | 1000.0        |              |                |                | 784            | 784        |                |        | 0 13         | DBBPXX            |
| Contrint         Contrint         Contribution                                                                                                                                                                                  | KEVTOX 2404C      | E•1•      | DUPOOT    | CD++1%C+     |                 | 69-1346-13          | 60X           | 1087.0        |              |                |                | 813            | 813        |                | -      | 0 13         | 088PXX            |
| Current 2 - Sec.         F=1: 0 UNTONT Control         F=1: 0 UNTONT Contro         F                                  | ARTUX GAC         | E•]•      | INDADO    | CO1NC-       |                 | 69-1346-14          | ž             | 1110.0        |              |                |                | 52             | 795        |                |        | 5            | <b>D88PXX</b>     |
| MUTUR Zohn         Eli DUPUNI COLINC.         OPE 13A-F11         GOX 2000.0         F0 0000.0         F0 0000.0 <th>KRYTOX -+OAC</th> <th>F•1•</th> <th>INCANO</th> <th>CO1NC-</th> <th></th> <th>69-1346-15</th> <th>X00</th> <th>1500.0</th> <th></th> <th></th> <th></th> <th>808</th> <th>808</th> <th></th> <th>-</th> <th>0 13</th> <th>DB6PXX</th> | KRYTOX -+OAC      | F•1•      | INCANO    | CO1NC-       |                 | 69-1346-15          | X00           | 1500.0        |              |                |                | 808            | 808        |                | -      | 0 13         | DB6PXX            |
| MUTTOR         20000         67-1340-11         GX         200000         775           MUTTOR         20000         67-1340-11         GX         20000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         96000         960000         96000         960000         960000         960000         960000         960000         960000         960000         960000         960000         9600000         9600000         9600000         9600000         9600000         9600000         9600000         9600000         9600000         9600000         96000000         96000000         96000000         96000000         96000000         96000000         96000000         960000000         960000000         960000000         9600                                                                                                                                                                                                                                                                                                                                                   | KETTUX 240AL      | E•1•      | DUFUNI    | CO++1NC+     |                 | 6 <b>9-1346-1</b> 6 | ŝ             | 1565.0        |              |                |                | 830            | e 30       |                | _      | 0 13         | 088PXX            |
| MITTUR 2.0000         Construct 2.0000         OPT-1346-11         GUX 2000         FOOD 0000         FOOD 00000         FOOD 000000         FOOD 0000000         FOOD 00000000         FOOD 00000000         FOOD 00000000         FOOD 00000000000         FOOD 000000000000000000000000000                                                                                                                                                                                                             | KAYTOX 240AC      |           | DUPONT    | CO+1NC+      |                 | 69-1346-17          | 20X           | 2000.0        |              |                |                | 775            | 775        |                | -      | 13           | 088PXX            |
| Matrix         Status         East of the status         Construction                                                                                                                                                                                | KATUK ZTUM        |           |           | LGINL.       | 0500.           | 69-1346-18          | x og          | 0.0004        |              | e<br>L         | 40/00          |                |            |                |        |              | 088 <i>P</i> X X  |
| Contring         Control         Contro         Control         Control <t< th=""><th>TATTO SADA</th><th></th><th></th><th></th><th></th><th>64-1340-14</th><th>100</th><th>0.000</th><th>0000</th><th>R</th><th>+0/00</th><th></th><th>0000</th><th></th><th>•</th><th></th><th>XX4990</th></t<>                                                                                    | TATTO SADA        |           |           |              |                 | 64-1340-14          | 100           | 0.000         | 0000         | R              | +0/00          |                | 0000       |                | •      |              | XX4990            |
| CHTTOR         Construct         C                                                                                                                                                                                                                                                 | KAYTOR 2404C      |           |           |              |                 | 69-1366-20          |               |               |              |                |                |                | 0000N      |                |        |              | VYODAU<br>VYODAU  |
| CHTTOR         2:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | KRYTOX 240AC      | E • ] •   | DUPONT    | CO INC.      |                 | 69-1346-21          | ŝ             | 200.0         | 2007         |                |                | 849            | 849        |                |        | 12           | DBAPXX            |
| KITTOR         ZADAL         F.I.         DUPORIT         CoNL         69-1144-7         GX         3000.0         730.1           KITTOR         ZADAL         F.I.         DUPORIT         CoNL         69-1144-7         GX         30.0         1000         7939           KITTOR         ZADAL         F.I.         DUPORIT         CoNL         69-1144-7         GX         30.0         1000         7939           KITTOR         ZADAL         F.I.         DUPORIT         CoNL         69-1144-7         GX         50.0         1000         7939           KITTOR         ZADAL         F.I.         DUPORIT         CoNL         69-1144-7         GX         50.0         1000         793           KITTOR         ZADAL         F.I.         DUPORIT         CoNL         69-1144-7         GX         50.0         1000         793           KITTOR         ZADAL         F.I.         DUPORIT         CoNL         71-2274         A=50         74-40         971           KITTOR         E.I.         DUPORIT         CoNL         71-2274         A=50         74-40         971           KITTOR         E.I.         DUPORIT         CoNL         71-2274                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | KRYTDX 240AC      | £.1.      | DUPONT    | COINC.       |                 | 69-1346-22          | GOX           | 1000.0        |              |                |                | 79.0           | 062        |                |        | 1            | DBBPXX            |
| KITTOR         Construct         69-1346-7         GCX         25.0         1000         77.0           KITTOR         20.00         0000         0000         71.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000         77.000                                                                                                                                                                                                                                                                                                                                                        | KRYTOX 240AC      | E•ï•      | DUPONT    | CO INC.      |                 | 69-1346-23          | ž             | 3000.0        |              |                |                | 734            | 734        |                |        | 13           | CBBPXX            |
| KNTTOR         Some<br>Construct         E-1:<br>(Construct         DOMONT         Construct         DOS         M000<br>F34           KNTTOR         Some<br>Construct         E-1:<br>(Construct         DUPONT         Construct         DOS         M000<br>F34           KNTTOR         Some<br>Construct         E-1:<br>(Construct         DUPONT         Construct         DOS         M000<br>F34           KNTTOR         Some<br>Construct         E-1:<br>(Construct         DUPONT         Construct         DOS         DOS         DOS           KNTTOR         Some<br>Construct         E-1:<br>(Construct         DUPONT         Construct         DOS                                                                                                                                                                                                                                                                                                                                                                 | KRYTOX 240AC      | E.1.      | DUPONT    | C0 / NC.     |                 | 69-1346-3           | COX<br>COX    | 25+0          | 1000         |                |                | 290            | 656N       |                | -      | с <b>п</b> , | 086PXX            |
| CKNTDR         Zookt         E-1:         DUPONT         Co.: NG:         69:134-5         GCX         50:0         1000         99:5           CKNTDR         Zookt         E-1:         DUPONT         Co.: NG:         69:134-5         GCX         50:0         100         99:5           KNTDR         Zookt         E-1:         DUPONT         Co.: NG:         69:-134-5         GCX         50:0         100         99:5           KNTDR         Zookt         E-1:         DUPONT         Co.: NG:         69:-134-5         GCX         50:0         100         99:5           KNTDR         Zookt         E-1:         DUPONT         Co.: NG:         69:-134-5         GCX         100:0         99:5           KNTDR         Zookt         E-1:         DUPONT         Co.: NG:         7:-2274-1         A-50         779:0         49:6         83:1           KNTDR         Zookt         E-1:         DUPONT         Cort NG:         7:-2274-1         A-50         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0         7:0                                                                                                                                                                                                                                                                                                                                                                                                                                           | KRYTOX 240AC      | E.I.      | DUPONT    | CO+1NC+      |                 | 69-1346-4           | ŝ             | 30.0          | 1000         |                |                | 666N           | 665N       |                | -      | A 13         | <b>DBBLXX</b>     |
| KITTOR 240AC         E-1: DUPONT CO-::NC.         69-1346-6         GCX         50.0         1000         N995           KITTOR 240AC         E-1: DUPONT CO-::NC.         69-1346-7         GCX         50.0         1000         954           KITTOR 240AC         E-1: DUPONT CO-::NC.         69-1346-7         GCX         50.0         1000         951           KITTOR 240AC         E-1: DUPONT CO-::NC.         69-1346-7         GCX         50.0         1000         951           KITTOR 240AC         E-1: DUPONT CO-::NC.         7-2274-1         A-50         744.0         497           KITTOR 240AC/TFE         E-1: DUPONT CO-::NC.         7-2274-1         A-50         74.0         497           KITTOR 240AC/TFE         E-1: DUPONT CO-::NC.         7-2274-1         A-50         74.0         497           KITTOR 240AC/TFE         E-1: DUPONT CO-::NC.         7-2274-1         A-50         74.0         493           KITTOR 240AC/TFE         E-1: DUPONT CO-::NC.         7-2274-1         A-50         74.0         493           KITTOR 240AC/TFE         E-1: DUPONT CO-::NC.         7-2274-1         A-50         471.0         493           KITTOR 240AC/TFE         E-1: DUPONT CO-::NC.         7-1-954         771.0         493                                                                                                                                                                                                                                                                                                                                                                     | KRYTOX 240AC      | E.1.      | DUPONT    | COINC.       |                 | 69-134 b-5          | 60X           | 0°0+          |              |                |                | 5 74           | 974        |                | ~      | 13           | DBBPXX            |
| KITTOR         S.4.000         F-1: OUPONT         CD.1 MC         69-1346-7         GOX         50.0         664           KITTOR         2.4.000         F-1: OUPONT         CO.1 MC         69-1346-7         GOX         100.0         854           KITTOR         2.4.000         F-1: OUPONT         CO.1 MC         69-1346-7         GOX         100.0         951           KITTOR         2.4.000         F-1: OUPONT         CO.1 MC         69-1346/104         GOX         1000.0         951           KITTOR         2.4.000         F-1: OUPONT         CO.1 MC         69-1346/104         GOX         1000.0         951           KITTOR         2.4.000         69-1346/10-1         GOX         1000.0         67         960           KITTOR         2.4.000         69-1346/10-1         GOX         1000.0         620         960           KITTOR         2.4.000         69-1346/10-1         GOX         1000.0         97         97           KITTOR         72-245         600         600         69-1346/10-1         600         97         90         97           KITTOR         77-19         10-1956-4         60X         1000.0         10         97         00         <                                                                                                                                                                                                                                                                                                                                                                                                                                 | KRYTOX 240AC      | E.].      | DUPONT    | CO INC.      |                 | 64-1346-6           | Š             | 50.0          | 1000         |                |                | 566N           | 666N       |                |        | E1 1         | DEBPXX            |
| KNYTOX 240AC         E-1:         DUPONT         Convince         69-1346-9         GGX         100.0         831           KNYTOX 240AC         E-1:         DUPONT         Convince         69-1346-9         GGX         100.0         831           KNYTOX 240AC         E-1:         DUPONT         Convince         69-1346-9         GGX         100.0         703           KNYTOX 240AC         E-1:         DUPONT         Convince         69-1346/70-1         A-50         779.0         496         831           KNYTOX 240AC         E-1:         DUPONT         Convince         69-1346/70-X         600.0         703           KNYTOX 240AC/TFE         E-1:         DUPONT         Convince         69-1346/70-X         600         703           KNYTOX 240AC         E-1:         DUPONT         Convince         69-1346/70-X         600         703           KNYTOX 240AC         E-1:         DUPONT         Convince         69-1346/70-X         600         70           KNYTOX 240AC         FIL         E-1:         DUPONT         Convince         69-1346/70-X         600         70           KNYTOX 240AC         FIL         FIL         TO         TO         TO         10         10 </th <th>KRYTOX 240AC</th> <th></th> <th>TNOODO</th> <th>CD1NC-</th> <th></th> <th>69-1346-7</th> <th>60X</th> <th>50.0</th> <th></th> <th></th> <th></th> <th>864</th> <th>864</th> <th></th> <th></th> <th>13</th> <th>DBBPXX</th>                                                                                                                                                                                | KRYTOX 240AC      |           | TNOODO    | CD1NC-       |                 | 69-1346-7           | 60X           | 50.0          |              |                |                | 864            | 864        |                |        | 13           | DBBPXX            |
| KITTOX 2:000         E-1:         DUPONT CO::NC         5:9-1346/1041         GOX         500.0         691           KITTOX 2:000         E-1:         DUPONT CO::NC         7:2274         A-50         779.0         991           KITTOX 2:000         E-1:         DUPONT CO::NC         7:2274-1         A-50         779.0         991           KITTOX 2:000         F-1:         DUPONT CO::NC         7:2274-1         A-50         779.0         991           KITTOX 2:000         F1:         DUPONT CO::NC         7:2274-1         A-50         779.0         991           KITTOX 2:000         F1:         DUPONT CO::NC         7:2274-1         A-50         779.0         991           KITTOX 2:000         F1:         DUPONT CO::NC         7:2274-1         A-50         770.0         930           KITTOX 2:000         F2:00         DUPONT CO::NC         7:0-1956-1         A-50         471.0         410         930           KITTOX 2:000         F2:00         DUPONT CO::NC         7:0-1956-2         A-50         471.0         410         930           KITTOX 2:000         F2:00         DUPONT CO:         7:0-1956-2         A-50         471.0         410         700         10         700                                                                                                                                                                                                                                                                                                                                                                                                            | KRYTDX Z40AC      |           | INDANO    | CO+1NC+      |                 | 69-1346-8           | Š             | 100.0         |              |                |                | 854            | 854        |                | -      | <b>1</b> 3   | XX J960           |
| MINING       FILE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | KRVIUX 240AC      |           | DUPONT    | CO++1MC+     |                 | 69-1346-9           | 60X           | 500.0         |              |                |                | 169            | 831        |                |        | 13           | DGPPXX            |
| KNTTUX 2:0000       F::::::::::::::::::::::::::::::::::::                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ARTIUN ZAUAL      |           | 1 MOLANO  |              |                 | +122-11             | A-50          | 0.671         | 964          |                |                |                |            |                | •      | 12           | 08E.PXX           |
| KITTOX       2406/71FE       (E.4.55)E-1:       DUPENT/DIXON       DVP       0000       620       0         KITTOX       2406/71FE       (E.4.55)E-1:       DUPENT/DIXON       COR       50:0       620       620       0         KITTOX       2406/71FE       (E.4.55)E-1:       DUPENT/DIXON       COR       50:0       620       620       630:0       630:0         KITTOX       PENNSALT       CORP       100-45       60X       50:0       449       70:0       449       70:0       410       70:0       410       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0       70:0 <t< th=""><th>KRYTUX 240AC</th><th>••</th><th>DUPOKI</th><th>CO++1 NC+</th><th></th><th>71-2274-1</th><th>A-50</th><th>744.0</th><th>164</th><th></th><th></th><th></th><th></th><th></th><th></th><th>15</th><th>086PXX</th></t<>                                                                                                                                                                                                                                                                  | KRYTUX 240AC      | ••        | DUPOKI    | CO++1 NC+    |                 | 71-2274-1           | A-50          | 744.0         | 164          |                |                |                |            |                |        | 15           | 086PXX            |
| KTVTUX       2.000.71FE       (ELASS)7E-10       D95-1346/70-X       0       0         KTVTUX       2.000.71FE       (ELASS)7E-10       D95-000       620       620       630         KTVTUX       720.1956       A-50       471.0       415       830         KTVTUX       FEMISALT       CORP       70-1956       A-50       471.0       415         KTVTUX       FEMISALT       CORP       70-1956-1       A-50       471.0       415         KTVAR       FEMISALT       CORP       70-1956-2       A-50       471.0       415         KTVAR       FEMISALT       CORP       70-1956-2       A-50       471.0       415         KTVAR       FEMISALT       CORP       70-1956-5       LOX       100.0       200       00/04         KTVAR       FEMISALT       CORP       70-1956-5       LOX       14.17       50       00/04         KTVAR       FEMISALT       CORP       70-1956-5       LOX       14.17       50       00/04         KTVAR       FEMISALT       CORP       70-1956-5       LOX       14.17       50       00/04         KTVAR       FEMISALT       CORP       70-1956-5       LOX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | KATIUX ZAUAU/IFE  |           |           | VULXON LOKP  |                 | 69-1346/1041        | Š             | 1000.0        | 103          |                |                |                |            |                | -      | 1 15         | BBFFCP            |
| KTYTD3       TAZAK       E-1. DUPGAT CORP       00-1956       50.0       200       000       000       000       000       000       0000       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00004       00000       000000 <t< th=""><th>KEVTOR 240AC/THE</th><th></th><th>DAMPINE L</th><th>DIXON CORP.</th><th>• 0000</th><th>69-1346/70-X</th><th>XUS</th><th>0.0001</th><th>420</th><th>0</th><th></th><th></th><th></th><th>• 00</th><th>00</th><th>5</th><th>8855CP<br/>885570</th></t<>                                                                                                                                                                                       | KEVTOR 240AC/THE  |           | DAMPINE L | DIXON CORP.  | • 0000          | 69-1346/70-X        | XUS           | 0.0001        | 420          | 0              |                |                |            | • 00           | 00     | 5            | 8855CP<br>885570  |
| KYNAR         FEWISALT CORP         70-1956         4-50         407.0         449           KYNAR         PEWISALT CORP         70-1956-1         4-50         471.0         415           KYNAR         PEWISALT CORP         70-1956-1         4-50         471.0         415           KYNAR         PEWISALT CORP         70-1956-2         A-50         471.0         415           KYNAR         PEWISALT CORP         70-1956-5         GOX 1000.0         200         00/04           KYNAR         PEWISALT CORP         70-1956-6         LOX         14.7         50         00/04           KYNAR         PEWISALT CORP         70-1956-6         LOX         14.7         50         00/04           KYNAR         PEWISALT CORP         70-1956-6         LOX         14.7         200         00/04           KYNAR         PEWISALT CORP         70-1973-1         MH         370.0         419         00/04           KYNAR         PEWISALT CORP         70-1973-1         MH         481.0         419         00/04           KYNAR         PEWISALT CORP         70-1973-1         MH         481.0         419         00/04           KYNAR         PEWISALT CORP         70-1973-3                                                                                                                                                                                                                                                                                                                                                                                                                                         | KTYTDX 762MC      | E al a    | DUPCHT    | CO++INC+     |                 | 10-65               | ŝ             | 50.02         | 222          |                |                | 930            | 04         |                |        |              | C 7 RD XX         |
| K TAA         PENSALT COP         70-1956-1         4-50         471.0         415           K WAR         PENSALT CORP         70-1956-1         4-50         471.0         415           K WAR         PENSALT CORP         70-1956-4         60X         1000.0         200         00/04           K WAR         PENSALT CORP         70-1956-4         60X         1000.0         50         00/04           K WAR         PENSALT CORP         70-1956-4         60X         14.0         200         00/04           K WAR         PENSALT CORP         70-1956-4         60X         14.7         200         00/04           K WAR         PENSALT CORP         70-1956-6         L0X         14.7         50         00/04           K WAR         PENSALT CORP         70-1956-7         A-50         502.0         419         00/04           K WAR         PENSALT CORP         70-1973         A-50         502.0         419         419           K WAR         PENSALT CORP         70-1973         A-50         515.0         419         419           K WAR         PENSALT CORP         70-1973         A-50         515.0         419         419           K WAR <td< th=""><th>K YNAR</th><th>WA34</th><th>SALT COR</th><th>19</th><th></th><th>70-1956</th><th>A-50</th><th>407.0</th><th>677</th><th></th><th></th><th></th><th>ì</th><th></th><th></th><th></th><th>EHCTXY</th></td<>                                                                                                                                                                                                                                    | K YNAR            | WA34      | SALT COR  | 19           |                 | 70-1956             | A-50          | 407.0         | 677          |                |                |                | ì          |                |        |              | EHCTXY            |
| KYNAR         PERMSALT         CORP         70–1956-2         A-50         424.0         410           KYNAR         PERMSALT         CORP         70–1956-4         COX         1000.0         50         00/04           KYNAR         PERMSALT         CORP         70–1956-4         COX         14.7         50         00/04           KYNAR         PERMSALT         CORP         70–1956-4         COX         14.7         50         00/04           KYNAR         PERMSALT         CORP         70–1956-4         LOX         14.7         50         00/04           KYNAR         PERMSALT         CORP         70–1956-6         LOX         14.7         50         00/04           KYNAR         PERMSALT         CORP         70–1973-1         NH         370.0         419           KYNAR         PERMSALT         CORP         70–1973-3         A                                                                                                                                                                                                                                                                                                                                                                                                                                                               | K, YRAR           | PENN      | SALT CON  | 9            |                 | 70-1956-1           | A-50          | 471.0         | 415          |                |                |                |            |                |        | 5            | EHCTXX            |
| KWAR         PENNSALT CORP         70-1956-3         GOX         1000.0         50         00/04           KYMAR         PENNSALT CORP         70-1956-4         GOX         10.00.0         50         00/04           KYMAR         PENNSALT CORP         70-1956-4         GOX         1000.0         50         00/04           KYMAR         PENNSALT CORP         70-1956-6         LOX         14.7         50         00/04           KYMAR         PENNSALT CORP         70-1956-6         LOX         14.7         50         00/04           KYMAR         PENNSALT CORP         70-1973         A-50         479.0         419         410         417           KYMAR         PENNSALT CORP         70-1973         A-50         479.0         419         410         417           KYMAR         PENNSALT CORP         70-1973-3         A-50         441.0         417         419         410         417           KYMAR-400         PENNSALT CORP         71-22599         A-50         444.0         417         419         410         417           KYMAR-400         PENNSALT CORP         71-22413-1         GOX         72-2141         446.0         417         446.0         417 </th <th>ETHAR</th> <th>PENNE</th> <th>SALT CON</th> <th>j.</th> <th></th> <th>70-1956-2</th> <th>A-50</th> <th>424.0</th> <th>410</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>r 15</th> <th>EHICT XX</th>                                                                                                                                                                                                    | ETHAR             | PENNE     | SALT CON  | j.           |                 | 70-1956-2           | A-50          | 424.0         | 410          |                |                |                |            |                |        | r 15         | EHICT XX          |
| KYMAR         PERMSALT CORP         70-1956-4         GOX         1000.0         200         00/04           KYMAR         PERMSALT CORP         70-1956-5         LOX         14.7         50         00/04           KYMAR         PERMSALT CORP         70-1956-6         LOX         14.7         50         00/04           KYMAR         PERMSALT CORP         70-1975-5         LOX         14.7         200         00/04           KYMAR         PERMSALT CORP         70-1973-1         A-50         479.0         419         200         00/04           KYMAR         PERMSALT CORP         70-1973-1         MH         370.0         420         437           KYMAR         PERMSALT CORP         70-1973-2         MH         481.0         437           KYMAR         PERMSALT CORP         70-1973-3         A-50         51.0         410           KYMAR         PERMSALT CORP         70-1973-3         A-50         51.0         410           KYMAR-000         PERMSALT CORP         70-1973-3         A-50         51.0         410           KYMAR-000         PEMMSALT CORP         71-22591         A-50         444.0         410           KYMAR-000         PEMMSALT CORP                                                                                                                                                                                                                                                                                                                                                                                                                                           | K VWAR            | PENE      | SALT COR  | 4            |                 | 70-1956-3           | GOX           | 1000.0        |              | 50             | 00/04          |                |            |                | -      | 11           | EHCTXX            |
| KYMAR         FEMSALI CORP         70-1956-15         LUX         14.7         200         00/04           KYMAR         PEMSALI CORP         70-1956-15         LUX         14.7         200         00/04           KYMAR         PEMSALI CORP         70-1956-15         LUX         14.7         200         00/04           KYMAR         PEMSALI CORP         70-1973-1         A-50         479.0         419         200         00/04           KYMAR         PEMSALI CORP         70-1973-1         NHH         370.0         420         437           KYMAR         PEMSALI CORP         70-1973-2         MHH         481.0         437           KYMAR         PEMSALI CORP         70-1973-3         A-50         51.0         437           KYMAR         PEMSALI CORP         70-1973-3         A-50         51.0         410           KYMAR-000         PEMSALI CORP         71-2259         A-50         51.0         410         410           KYMAR-000         PEMSALI CORP         71-22413-1         GOX         72-0         00/04           KYMAR-000         PEMSALI CORP         71-22413-1         GOX         75-0         410           KYMAR-000         SILICUK RUBBER                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |           | SALT CU   | <b>a</b> . : |                 | 70-1956-4           | Š.            | 1000.0        |              | 200            | 40/00          |                |            |                |        |              | EHCTXX            |
| KYMAR         PENNSALT CORP         70-1973         A-50         473         0000           KYMAR         PENNSALT CORP         70-1973         A-50         479         0         412           KYMAR         PENNSALT CORP         70-1973-1         NMH         370.0         420         413           KYMAR         PENNSALT CORP         70-1973-1         NMH         481.0         420         437           KYMAR         PENNSALT CORP         70-1973-2         NMH         481.0         437         437           KYMAR         PENNSALT CORP         70-1973-3         A-50         515.0         437         444.0         417           KYMAR-400         PENNSALT CORP         71-22591         A-50         515.0         437         419           KYMAR-400         PENNSALT CORP         71-22413-1         GOX         250.0         417           KYMAR-400         PENNSALT CORP         71-22413-1         GOX         7250.0         419           KYMAR-400         PENNSALT CORP         71-22413-1         GOX         75.0         00/04           KYMAR-400         PENNSALT CORP         71-2413-1         GOX         75.0         00/04                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |           |           |              |                 | 70-1954-5           |               | ~ * *         |              |                | *0/00          |                |            |                | -      |              | EHULIXX<br>EUCTVV |
| KYMAR         PERMISALT CORP         70-1973         A-50         479.0         4.0           KYMAR         PERMISALT CORP         70-1973-1         NHH         370.0         420           KYMAR         PERMISALT CORP         70-1973-1         NHH         370.0         420           KYMAR         PERMISALT CORP         70-1973-1         NHH         481.0         420           KYMAR         PERMISALT CORP         70-1973-2         NHH         481.0         437           KYMAR-400         PENMISALT CORP         70-1973-3         A-50         515.0         437           KYMAR-400         PEMMISALT CORP         71-2259         A-50         494.0         417           KYMAR-400         PELMISALT CORP         71-22413-1         GOX         250.0         00/04           KYMAR-400         PELMISALT CORP         71-2413-1         GOX         75.0         00/04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | K YNAR            |           |           | -            |                 | 70-1956-7           |               |               | 503          | 2002           |                |                |            |                |        |              |                   |
| KYNAR         PENNSALT CORP         70-1973-1         NNH         370.0         420           KYNAR         PENNSALT CORP         70-1973-2         NNH         370.0         420           KYNAR         PENNSALT CORP         70-1973-2         NNH         481.0         437           KYNAR-400         PENNSALT CORP         70-1973-3         A-50         515.0         437           KYNAR-400         PENNSALT CORP         71-2259         A-50         444.0         417           KYNAR-400         PENNSALT CORP         71-2269-1         A-50         449.0         417           KYNAR-400         ELHISALT CORP         71-2413-1         GOX         250.0         00/04           KYNAR-400         ELHISALT CORP         71-2413-1         GOX         75.0         634                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | KYNAR             | NW34      | SALT COR  | 9            |                 | 70-1973             | A-50          | 479.0         | 614          |                |                |                |            |                |        | 1            | RPCTXX            |
| KYMAR         PEINSALT CORP         70–1973–2         MHH         481.0         437           KYMAR         PENNSALT CORP         70–1973–3         A–50         515.0         437           KYMAR         PENNSALT CORP         70–1973–3         A–50         515.0         437           KYMAR-400         PENNSALT CORP         71–2259         A–50         419         00/04           L-13096 SILICOME         RUBBER         71–2413–1         GOX         75.0         634                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | KYNAR             | PENN      | SALT COR  | 10           |                 | 10-1973-1           | HWH           | 370-0         | 420          |                |                |                |            |                |        | 5            | EHCTXX            |
| KWAR         PENNSA T CORP         70-1973-3         A-50         515.0         437           KYMAR-400         PENNSALT CORP         71-2259         A-50         484.0         417           KYMAR-400         PENNSALT CORP         71-2259-1         A-50         494.0         419           KYMAR-400         PENNSALT CORP         71-2259-1         A-50         494.0         419           L-13098         SILICONE         NUBBER         71-2413         GOX         250.0         00/04           L-13098         SILICONE         NUBBER         71-2413-1         GOX         75.0         03/44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | K VNAR            | PENN      | SALT CON  | th           |                 | 20-1973-2           | INI           | 481.0         | 437          |                |                |                |            |                |        | 12           | EHCTXX            |
| KTMAR-400         PENNSALT CORF         71-2259         á-50         484.0         417           KTWAR-400         PENNSALT CORP         71-2259-1         à-50         494.0         419           L-13098         Sill ICONE         NUBBER         Total         71-2259-1         à-50         494.0         419           L-13098         Sill ICONE         NUBBER         71-2213         GOX         250.0         00/04           L-13098         Sill ICONE         NUBBER         71-2413-1         GOX         75.0         03/04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | KYNAR             | PENN      | SA' T COR | d,           |                 | 70-1973-3           | A-50          | 515.0         | 437          |                |                |                |            |                | •      | L 15         | EHCTXX            |
| KYMAR-400 PENNSALT CORP 71-2259-1 4-50 494.0 419<br>L-13096 Silicome Rubber<br>L-13096 Silicome Rubber 71-2413 60x 250.0 00/04<br>L-13096 Silicome Rubber 71-2413-1 60x 75.0 634                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | K TNAR-400        | PENN      | SALT COP  | J.           |                 | 71-2259             | á-50          | 484.0         | 417          |                |                |                |            |                |        | T 15         | EHCTXX            |
| L-13098 SIL FC WE RUBBER 71-2413-1 60x 75.0 00/04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | KTWAR-400         | PENN      | SALT CON  | 4            |                 | 71-2259-1           | A-50          | 0.464         | 419          |                |                |                |            |                | •      | 51.          | EHCTXX<br>00000   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L-13096 SILICUME  | RUDDER    |           |              |                 | 71-2613-1           |               | 0.062         |              |                | *0/00          | 101            |            |                | - •    |              | 779970            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L-13030 31117 MC  | NUDDEN    |           |              |                 | 1-6747-71           | 100           |               |              |                |                |                |            |                | -      |              | D V D F X X       |

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| MFGR 5 DESIGNATION        | MANUFAC TURER         | SPEC.  | TEST RPT ND. | 7657<br>6270 | TEST       | TEST | I MP T       | NO OF F      | LASH F | IRE PO | 20P    |          | i        | - J L.k.                |
|---------------------------|-----------------------|--------|--------------|--------------|------------|------|--------------|--------------|--------|--------|--------|----------|----------|-------------------------|
|                           |                       |        |              |              | 1 10 2 2 2 |      |              |              |        |        | 121 FU | 000      | -        |                         |
| L-449-6 FLUDROS ILICONE   | PARKER SEAL/LOS ANGLS | •0750  | 10-40        | Š            | 3000.0     |      |              | 00/04        |        |        |        | ~        | 3        | CHD ,                   |
| L-449-6 FLUORDS IL IC ONE | PARKER SEAL/LOS ANGLS | .0750  | 10+0-1       | 60 X         | 3500-0     |      | -            | 01/02        |        |        |        | 5        | 9        | N-D-D-L-X               |
| L-449-6 FLUDROS IL ICONE  | PARKER SEAL/LOS ANGLS |        | 10-40-10     | Š            | 3000-0     |      |              | 10/10        |        |        |        | , –      | Ē        | CHDGXX                  |
| L-449-6 FLUORDSILICONE    | PARKER 'EAL/LOS ANGLS |        | 10-40-11     | ΥO.9         | 2500.0     |      | -            | 01/02        |        |        |        |          | 2        | CHDGXX                  |
| L-449-6 FLUORDS IL ICONE  | PARKER SEAL/LOS ANGLS |        | 10-40-12     | Š            | 2000.0     |      |              | CO/04        |        |        |        | . 4      | 10       | CHOCXX                  |
| L-449-6 FLUGROSILICONE    | PARKER SEAL/LOS ANGLS |        | 10-40-13     | 60 X         | 500.0      |      | 50           | 22/02        |        |        |        | -        | 2        | XXUHU                   |
| L-449-6 FLUDROS IL ICONE  | PARKEN SEAL/LOS ANGLS | .0750  | 10-40-2      | ŝ            | 4000-0     |      |              | 04/04        |        |        |        |          | 0        | CHOGXX                  |
| 5-445-5 FLUORDSILICONE    | PARKER SEAL/LOS ANGLS | .0750  | 10-40-3      | SOX.         | 2000-0     |      | 8            | 40700        |        |        |        | • <      |          | 22010                   |
| L-449-6 FLUDROS IL ICONE  | PARKER SEAL/LOS ANGLS | .0750  | 10-40-4      | XOS          | 0000       |      | 20           | 70700        |        |        |        | ( <      |          |                         |
| L-449-6 FLUDRCS IL ICONE  | PARKER SEAL/LOS ANGLS | .0750  | 10-40-5      | 60X          | 3500.0     |      | 205          | 10/10        |        |        |        | . 2      | :-       | XX00H1                  |
| L-449-6 FLUORDS JL ICONE  | PARKER SEAL/LOS ANGLS | .0750  | 0-04-0       | š            | 4000-0     |      | 05           | 04/07        |        |        |        |          | 12       | XX90F0                  |
| L-449-6 FLUGROSILICONE    | PARKER SEAL/LOS ANGLS |        | 10-40-7      | COX<br>COX   | 2000.0     |      |              | •            | 298    | 5-2    |        |          | : -      | CHDGXX                  |
| L-449-6 FLUDROS IL ICONE  | PARKER SEAL/LOS ANGLS |        | 10-1-1-01    | Š            | 6.2        |      |              |              | 735    | 142    |        |          | Ē        | CADGXX                  |
| L-449-6 FLUOROS IL ICONE  | PARKER SEAL/LOS ANGLS |        | 10-40-3      | COX          | 16.5       |      |              |              | 748    | 144    |        |          |          | CHOCXX                  |
| L-605 HS-25               | GAC                   | •0750  | 70-2115      | ŝ            | 2000.0     |      |              | 00/06        |        |        |        |          | 12       | DIMOXX                  |
| 1-605 HS-25               | GAC                   | •0750  | 70-2115-1    | COX          | 4500.0     |      | Ţ            | 20/04        |        |        |        |          | 2        | THOXX                   |
| LANICOID 6-7              | SYNTHANE CORP         |        | 71-2533      | A-50         | 801.0      | 512  |              |              |        |        |        |          | 5        | DACKGD                  |
| LANICOLD 6-7              | SYMTHANE CORP         |        | 71-2533-1    | A-50         | 762.0      | 512  |              |              |        |        |        | · –      | 5        | Direction of the second |
| LANIMATE 7564 AND 7561    | REEVES BROS. INC.     |        | 70-2090      | ŝ            | 300.0      | •    |              |              |        | `<br>  |        | C        | :        | BDFCC                   |
| LARIMATE 7564 AND 7581    | REEVES BROS. INC.     |        | 70-2090-1    | C0 X         | 450.0      |      |              |              | ž      | . 05   |        |          |          | BOFCC                   |
| LEADED BRAST              | ANACONDA AN. BRASS CO |        | 71-2744      | A-50         | 746.0      | 506  |              |              |        |        |        |          | 5        | E. MCMZ                 |
| LEADED BRASS              | ANACONDA AM. BRASS CO | • 0000 | 71-2744-1    |              | •          |      | 0            |              |        |        | 1      | 00       |          | EL NCHZ                 |
| LENDN FRESH JOY           | PROCTOR + GAMBLE      |        | 71-2889-1    | Š            | 6000.0     |      | 00           | 01/04        |        |        |        | 4        |          | XXXXX                   |
| LENGS FRESH JOY           | PROCTOR + GAMBLE      |        | 71-2389-2    | C0X          | 3000.0     |      | Ū            | 10/10        |        |        |        |          | 0        | XXXX                    |
| LENGH FRESN JOY           | PROCTOR + GANBLE      |        | 71-2669-3    | X<br>Q9      | 2000.0     |      | Ī            | 10/10        |        |        |        |          | 2        | XX:XM                   |
| LENGIN FRESH JOY          | PRDCTOR + GAMBLE      |        | 71-2589-4    | COX          | 1000.0     |      | Ū            | 00/06        |        |        |        | •        | -        | SKXAS                   |
| LENGN FRESH JOY           | PROCTOR + GAMBLE      |        | 71-2889-5    | ž            | 1500.0     |      | Ī            | 10/10        |        |        |        | ••       | ÷.       | <b>.</b>                |
| LINEAR POLYETHYLENE       | MALGE CO. INC         | • 0000 | 71-2437      |              | °          |      | <del>ن</del> |              |        | •      | 00     | •00      | ، ،<br>و | ,<br>,<br>,             |
| LINEAR POLYETHYLENE       | NALGE CU. INC         | 0000   | 71-2437-1    |              | ¢.         |      | c            |              |        |        | 00     | 00       | 15       | N. 5. 5. 5.             |
| LTHOBRAZE BT-720          | HANDY AND HARMON      |        | 71-2560      | INN          | 807.0      | 530  |              |              |        |        |        | <b>-</b> | 15       | L MRMC                  |
| LITHORAZE BT-720          | HANDY AND HARMON      |        | 71-2560-1    | I            | 779.0      | 514  |              |              |        |        |        |          | 5        | FL MRMC                 |
| LITHOSPAZE BT-720         | HANDY AND HARKON      |        | 71-2560-2    | COX          | 1500.0     |      | Ū            | 0/04         |        |        |        | <        | 10       | <b>L MRMC</b>           |
| LITURLEX K20              | REX ASBESTHERKE       |        | 71-2432      | Š.           | 5000.0     |      | 50           | <b>20/04</b> |        |        |        | 4        | 11       | CCPL XX                 |
| TINKEX XZO                | REX ASBESTWERKE       |        | 1-3642-17    | x<br>CO<br>S | 5000.0     |      | ~            | 01/02        |        |        |        | -        | 2        | CFLXX                   |
| LITURLEX KZO              | REX ASBESTHERKE       |        | 71-2432-2    | Š            | 2500.0     |      | •            | 10/10        |        |        |        | -        | 2        | CCR XX                  |
| LITUTLEX KZU              | REX ASBESTNERKE       |        | 71-2432-3    | X09          | 2000.0     |      | Ŭ            | 01/02        |        |        |        | -        | 2        | CFLXX                   |
| LITUHLEX K20              | REX ASBESTNERKE       |        | 71-2432-4    | ž            | 1500.0     |      | Ĩ            | 10/10        |        |        |        | -        | 0        | CCR XX                  |
| LITORLEX K20              | REX ASBESTHERKE       |        | 71-2432-5    | 60X          | 1000.0     |      | -            | 10/10        |        |        |        | -        | 207      | CFLXX                   |
| LITOFLEX K20              | REX ASBESTWERKE       |        | 71-2432-6    | ž            | 500.0      |      | Ĭ            | <b>20/04</b> |        |        |        | •        | 2        | CCR XX                  |
| LUCTITE CRADE A           | LOCTITE CORP          |        | 69-1516      | 60X          | 1565.0     |      |              |              | 595    | 295    |        | 0        | 13       | SOMFW                   |
| LUCTITE+GRADE A           | LOCTITE CORP          | -0050  | 70-2063      | õ            | 1500.0     |      | 50           | 0/04         |        |        |        | 4        | 11       | BMEN                    |
| LUCTITE+GRADE A           | LOCITIE CORP          | • 0050 | 70-2063-1    | COX          | 1500.0     |      | Ŭ            | 0/04         |        |        |        | 4        | 2        | <b>SBMFW</b>            |
| LUCITTE+GRADE A           | LOCTITE CORP          |        | 70-2063-10   | ŝ            | 1000.0     |      |              |              | 259    | 259    |        | 2        | 15       | <b>ESBMFW</b>           |
| LUCTIF STADE A            | LOCTI IL CURP         |        | 70-2063-11   | 60X          | 25•0       |      |              |              | 258    | 445    |        | Ċ        | 6        | <b>SBMFW</b>            |

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| MFGA S DESIGNATION  | MANUFACTURER        | SPEC.  | TEST RPT NO. | TE3T<br>Envr | TEST<br>PRESS | TEST<br>TEMP | I NPT<br>ENER | ND OF<br>React | FLASH                 | TTE PRO | IP WT | α         |                | щ             |
|---------------------|---------------------|--------|--------------|--------------|---------------|--------------|---------------|----------------|-----------------------|---------|-------|-----------|----------------|---------------|
| ADCTITE CRADE A     | I NCTUTE COBP       |        | 70-2043-12   | xu2          |               |              |               |                | 910                   | 205     |       | ć         |                | COMPU         |
| LECTIC COARE A      |                     |        | 21-0003-01   |              |               |              |               |                |                       | 5 1 1   |       | - · ·     |                |               |
| LATTE CAAR          | LUCITIE CON         |        |              |              |               |              |               |                | 202                   | 200     |       | 5         | 10<br>10       | オーエロク         |
| I TETE COART        | INCTITE COOP        |        |              | 3            |               |              | 2             | 107.00         | 282                   | 282     |       | 5.        | 1              |               |
|                     | POTITE CON          |        |              |              |               |              |               | 10/00          |                       |         |       | 4         |                |               |
| I TTTS CRANE A      | LEGUT DE CURT       |        | 20-2042-17   |              |               |              |               |                |                       |         |       | 4         |                |               |
| LOCTITE.CRADE A     | LOCTITE CORP        |        | 70-2063-18   |              | 100.0         |              | 2             |                |                       |         |       |           |                |               |
| LECTITE.GRADE A     | LECTITE CORP        |        | 70-2063-19   | x09          | 0.0001        |              |               | 10/10          |                       |         |       | 2 a       |                |               |
| LOCTITE.GADE A      | LOCTITE CORP        |        | 70-2063-2    | XOS          | 1000.0        |              |               |                | 282                   | 282     |       | 5         |                |               |
| LOCTITE-GRADE A     | LOCTITE CORP        |        | 70-2063-20   | SOX          | 1500.0        |              |               | 10/10          |                       | 1       |       | 0         | 000            | SBAFA         |
| LOCTITE.GRADE A     | LOCTITE CORP        |        | 70-2063-21   | ×09          | 2000.0        |              |               | 10/10          |                       |         |       | 0         | 8              | SUMPN         |
| LOCTITE , GRADE A   | LOCTITE CORP        |        | 70-2063-3    | 60 X         | 50.0          |              |               |                | 269                   | 269     |       | 5         | 8              | SOMFW         |
| LOCTITE . GRADE A   | LOCTITY CORP        |        | 70-2063-4    | Š            | 100.0         |              |               |                | ,241                  | 241     |       | <u>د</u>  | 38.5           | SOMPH         |
| LOCTITE . GRADE A   | LOCTITE CORP        |        | 70-2063-5    | 50X          | 500.0         |              |               |                | 151                   | 151     |       | 0         | 3 35           | SBAFK         |
| LOCTIVE - GRADE A   | LOCTITE CORP        |        | 70-2063-6    | õ            | 1500.0        |              |               |                | 204                   | 204     |       | 0         | 9<br>8<br>8    | SUMFU         |
| LUCTITE GRADE A     | LOCTITE CORP        |        | 70-2063-7    | 60X          | 2000.0        |              |               |                | 208                   | 208     |       | <u>ر</u>  | 382            | SURFE         |
| LOCVITE.GRADE A     | LOCTITE CORP        |        | 70-2063-8    | T WR         | 776.0         | 520          |               |                |                       |         |       | -         | 5 85           | SOMFW         |
| LOCTITE GRADE A     | LOCTITE CORP        |        | 70-2063-9    | RRI          | 815.0         | 554          |               |                |                       |         |       | F         | 50.0           | SBMFI         |
| LOCTITE.GRADE E     | LOCTITE CORP        |        | 71-2558      | A-50         | 758.0         | 512          |               |                |                       |         |       | ~<br>►    | 5 05           | SCBXX         |
| LOCTITE+GRADE E     | LOCTITE CORP        |        | 71-2558-1    | A-50         | 772.0         | 514          |               |                |                       |         |       | F         | 5 DS           | SCBXX         |
| LUCTITE -GRADE-E    | LOCTITE CORP        | • 0050 | 70-2122      | Š            | 1500.0        |              |               | 02/02          |                       |         |       | -         | 0 05           | SCBXX         |
| LOCTITE . CRADE-E   | LOCTITE CORP        | + 0050 | 70-2122-1    | 20X          | 1500.0        |              | 50            | 00/04          |                       |         |       | •         | 1 05           | SC9XX         |
| LOCTIVE GRADE-E     | LOCTITE CORP        |        | 70-2122-10   | Š            | 50.0          |              |               |                | 210                   | 210     |       | 0         | 30 E]          | SCBXX         |
| LOCTITE CRADE-E     | LOCTITE CONP        |        | 70-2122-11   | ŝ            | 100.0         |              |               |                | 274                   | 27+     |       | ۵         | ň<br>No<br>No  | 5CBXX         |
| LULTITE SKAUE-E     | LOCTI TE CORP       |        | 70-2122-12   | ŝ            | 200.0         |              |               |                | 217                   | 217     |       | 0         | 50             | SCBXX         |
| LUCTITE+GRADE-E     | LOCTITE CORP        |        | 70-2122-13   | 60 X         | 1000-0        | 168          |               |                |                       |         |       | 0         | 50             | SCBXX         |
| LUCTITE GRADE-E     | LOCTITE CORP        |        | 70-2122-13   | Š            | 1000.0        |              |               |                | <b>1</b> 68           | 168     |       | 0         | 53             | SCRXX         |
| LTC TITE GRADE-E    |                     |        | 70-2122-14   | 20X          | 1500-0        |              |               |                | 182                   | 192     |       | 6         | SO E           | SCBXX         |
| LULIISE WADE-E      |                     |        | 10-2122-15   | ŝ            | 2000.0        |              |               |                | 194                   | 761     |       | 2         | ()<br>()<br>() | SCBXX         |
| 4 UL 1115 • 68405-E | LOCTITE COR.        |        | 70-2122-16   | × 200        | 3000.0        | 226          |               |                |                       |         |       | 0         | 500            | SCBXX<br>2022 |
|                     |                     |        |              |              |               |              |               |                | 1 N N<br>1 N N<br>1 N | 100     |       | <br>- c   |                |               |
| LOCTITE CRADE-E     | LOCTITE CORP        |        | 70-2122-2    | ŝ            | 4500.0        |              | 04            | 70700          | 5                     | 134     |       | •         | 25             |               |
| LOCTITE GRADE-E     | LOCTITE CORP        |        | 70-2122-3    | 60X          | 1000.1        |              | 2             |                | 300                   | 300     |       | . 6       |                | CBAR          |
| LOCTITE .GRADE-E    | LOCTITE CORP        |        | 70-2122-4    | ×03          | 3000- J       |              |               |                | 241                   | 241     |       | . C       | 10             | XXXUS         |
| LOCTITE GRADE-E     | LOCTITE CGRP        |        | 70-2122-5    | 60X          | 5000.0        |              | 50            | 40/00          | <br> <br>             | 1       |       |           |                | CBXX          |
| LOCTITE.GRADE-E     | LOCTITE CORP        |        | 70-2122-6    | žg           | 2500.0        |              |               | 10/10          |                       |         |       | . <b></b> | 0              | SCBXX         |
| LOCTITE GRADE-E     | LOCTITE CORP        |        | 70-2122-7    | XOO          | 1500.0        |              |               | 61/01          |                       |         |       | -         | 000            | SCBXX         |
| LOCTITE.GRADE-E     | LOCTITE CORP        |        | 70-2122-8    | Š            | 1000.0        |              |               | 01/01          |                       |         |       | -         | 0 05           | SCBXX         |
| LOCT TTE .GADE-E    | LOCTITE CORP        |        | 70-2122-9    | 60X          | 500.0         |              |               | 01/02          |                       |         |       | -         | 0 03           | SCRXX         |
| LACTITE .GRADE-E    | LOCTITE CORP        |        | 71-2477      | A-50         | 772.0         | 305          |               |                |                       |         |       | -         | 15 05          | SCBXX         |
| LOCTITE.GRADE-E     | LOCTITE CORP        |        | 71-2477-1    | A-50         | 801.0         | 512          |               |                |                       |         |       | -         | 15 05          | SCBXX         |
|                     | MICHULS ENGINEERING |        | 8111-01      | ŝ            | 1500.0        |              | 20            | 40/00          |                       |         |       | 4         |                | 0060P         |
| 55 <b>-</b> 61      | HCHICS ENGINEERING  |        | 8/1-0/       | ¥ ng         | 0•0061        |              |               | 0110           |                       |         |       | -         | б<br>о         | JDGCP         |

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MATERIAL TEST DATA BI HAMIN ACTURER S DESIGNATION AS DF 31 JAN 72

| MFGR S DESIGNATION             | MANUFACTURER         | S DEC.<br>Thick. | TEST RPT ND. | TEST<br>ENVR | TEST<br>PRESS | TEST | LMPT<br>Ever | NO OF<br>REACT | FL ASH<br>POINT | F ] R E<br>P T  | 4059<br>1510 | HT<br>055 | a -        | ¥ŏ                                                                                          | 28              |
|--------------------------------|----------------------|------------------|--------------|--------------|---------------|------|--------------|----------------|-----------------|-----------------|--------------|-----------|------------|---------------------------------------------------------------------------------------------|-----------------|
|                                |                      |                  |              |              |               |      |              |                |                 |                 |              |           |            |                                                                                             | ,               |
| (S5)                           | NICHOLS ENGINEERING  |                  | 70-1778-1    | SOX<br>S     | 8000-0        |      |              |                | 428             | 42B             |              |           | -          | 2                                                                                           | 0.00            |
| 1 5-63                         |                      |                  |              |              |               |      |              |                |                 |                 |              |           |            |                                                                                             |                 |
|                                | MICHOLO CHOIMEENING  |                  |              | 100          | C • 0 1       |      |              |                |                 | 5.5             |              |           | i<br>D     | 5                                                                                           | ec.             |
|                                | MICHULS ENGINEERING  |                  | 11-8//1-0/   | Š            | 0.452         |      |              |                | 917             | 9.1             |              |           |            | D<br>D<br>D<br>D                                                                            | 0000            |
|                                | WICHOLS ENGINEERING  |                  | 70-1778-12   | x 00         | 50.0          |      |              |                | 483             | 292             |              |           | 0          | 000                                                                                         | 0CP             |
| LS-53                          | MICHOLS ENGINEERING  |                  | 70-1776-13   | ŝ            | 50.0          |      |              |                | 674             | 674             |              |           | 2          | 000                                                                                         | OGC P           |
| LS-53                          | NICHOLS ENGINEERING  |                  | 70-1778-14   | x 09         | 100.0         |      |              |                | 221             | 100             |              |           | -<br>-     |                                                                                             | 000             |
| LS-53                          | NICHOLS ENGINEERING  |                  | 70-1778-15   | ŝ            | 500-0         |      |              |                | 421             | - C- 4          |              |           |            |                                                                                             |                 |
|                                | MICHUS CHCINCERINC   |                  | 70-1778-14   | 100          |               |      |              |                | 105             |                 |              |           |            |                                                                                             |                 |
|                                |                      |                  |              |              |               |      |              |                | 440             | 1  <br>7  <br>6 |              |           |            |                                                                                             | ן<br>ייין       |
|                                | MICHOLS ENGINEERING  |                  |              | Š            | 0.00cl        |      |              |                | 317             | 77E             |              |           |            |                                                                                             | ĉ,              |
| LS-53                          | NICHOLS ENGINEERING  |                  | 70-1778-18   | Š            | 2000.0        |      |              |                | ድ               | 625             |              |           | -<br>0     | 800                                                                                         | 960             |
| [S53                           | NICHOLS ENGINEERING  |                  | 70-1778-19   | š            | 3000.0        | 374  |              |                |                 |                 |              |           | 0          | 000                                                                                         | SCCP            |
| LS-53                          | MICHOLS ENGINEERING  |                  | 70-1778-2    | XOS          | 5000.0        |      | 50           | 00/04          |                 |                 |              |           | ~          | 000                                                                                         | a Doc           |
| <b>LG5</b> 3                   | MICHOLS ENGINEERING  |                  | 70-1778-3    | Ň            | 1500.0        |      |              | 10/10          |                 |                 |              |           |            |                                                                                             | AC P            |
| 15-53                          | NICHNIS FAGINFFAING  |                  | 70-1778-4    | CO.          | 0.0001        |      |              | 40/00          |                 |                 |              |           | •          |                                                                                             |                 |
| 1.5-53                         |                      |                  | 70-1778-6    |              |               |      | 3            |                |                 |                 |              |           |            |                                                                                             |                 |
|                                | MICHNIC CHCINECTING  |                  | 70-1176-6    |              |               |      |              |                |                 |                 |              |           |            |                                                                                             | 2               |
|                                |                      |                  |              | 200          |               | •    |              | 10/00          |                 |                 |              |           | -          | 5                                                                                           | 200             |
| 6 <b>6-61</b>                  | MICHOLS ENGINEERING  |                  | 70-1778-7    | FOX          | 14.7          |      | 20           | 00/07          |                 |                 |              |           | ž<br>t     | 20                                                                                          | 000             |
| LS-53                          | NICHOLS ENGINEERING  |                  | 70-1778-8    | L OX         | 14.7          | - •  | ş            | 00/04          |                 |                 |              |           | A<br>A     | 5 000                                                                                       | 900             |
| L S-53                         | NICHOLS ENGINEERING  |                  | 70-1778-9    | ž            | <b>6.</b> 2   | 1000 |              |                | 808             | 000N            |              |           |            | DOC 6                                                                                       | 960.P           |
| 15-63                          | MICHDLS FNGINFFRING  | -0756            | 10-34        | 60 X         | 1000-0        | 1    |              | 10/00          |                 |                 |              |           |            | 3                                                                                           | ~~ ~~           |
| LS-63                          | NICHOLS ENGINEERING  | -0750            | 10-38-1      | Š            | 1500.0        |      |              | 40/00          |                 |                 |              |           |            |                                                                                             |                 |
| 1 5-43                         |                      | OTEO.            |              |              |               |      | 0.70         |                |                 |                 |              |           |            |                                                                                             |                 |
|                                |                      |                  |              |              | 0.0000        |      | 56           | 10/10          |                 |                 |              |           |            | 5                                                                                           | NG X X          |
|                                | KICHULS ENGINEERING  |                  |              | 3            | 1000.0        | •    | 202          | 10/10          |                 |                 |              |           |            | 5                                                                                           | XX 9            |
|                                |                      | 0610+            |              | X DS         | 2000-0        | •    | 200          | 10/10          |                 |                 |              |           | <b>a</b>   | ¥<br>S                                                                                      | XXXX            |
|                                | NICHOLS ENGINEERING  | •0120            | 10-38-13     | XOS          | 3000          |      | 200          | 10/03          |                 |                 |              |           | <          | 3<br>5<br>-                                                                                 | XCXX<br>XCXX    |
| [.S-63                         | NICHOLS ENGINEERING  | • 0750           | 10-36-14     | 60X          | 4000.0        | •••  | Š            | 10/00          |                 |                 |              |           | 4          | H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H<br>H | NG X X          |
| LS-63                          | WICHOLS ENGINEERING  | •0750            | 10-38-15     | ŝ            | 5000.0        |      | 200          | 00/04          |                 |                 |              |           | -<br>-     | ŝ                                                                                           | NX X            |
| 1.S-63                         | HICHOLS ENGINEERING  |                  | 10-30-16     | 60X          | 25.0          |      |              |                | 725             | 725             |              |           |            | E.                                                                                          | NG XY           |
| LS-63                          | WICHOLS ENGINEERING  |                  | 10-38-17     | ŝ            | 50.0          |      |              |                | 685             | 685             |              |           | 0          | 3 CH                                                                                        | X X XX          |
| LS-63                          | NICHOLS ENGINEERING  |                  | 10-38-18     | COX          | 100.0         |      |              |                | 452             | 452             |              |           | 0          | E                                                                                           | CXX<br>0<br>CXX |
| LS-63                          | MICHOLS ENGINEERING  | .0750            | 10-38-2      | ×            | 2000.0        |      |              | 04/04          |                 |                 |              |           | 6          | ¥C<br>C                                                                                     | NG X X          |
| LS-63                          | MICHDLS ENGINEERING  | .0750            | 10-38-3      | COX          | 3000.0        |      |              | 01/01          |                 |                 |              |           | 0          | E                                                                                           | XX SO           |
| LS-63                          | MICHOLS ENGINEERING  | .0750            | 1038-4       | X OS         | 2500.0        |      |              | 40/00          |                 |                 |              |           |            |                                                                                             | NC X X          |
| LS-63                          | MICHOLS ENGINEERING  | 0750             | 10-38-5      | XOS          | 3000-0        |      |              | 70/10          |                 |                 |              |           | • -<br>• - |                                                                                             | ××30            |
| L S - 63                       | MICHOLS FNCINFERING  | 0750             | 10-36-6      | 25           | 0.0056        |      |              |                |                 |                 |              |           |            | 5.                                                                                          |                 |
| LS-63                          | MICHUS FMCINERIA     | 0750             |              |              |               |      |              | 20/10          |                 |                 |              |           |            | 5<br>5<br>5<br>5                                                                            |                 |
| 15-63                          | ELCHOL > FREINFERING | .0760            |              |              |               |      |              |                |                 |                 |              |           |            |                                                                                             | 222             |
|                                |                      |                  |              |              |               |      |              |                |                 |                 |              |           |            | รี่                                                                                         | JG X X          |
| L3-U3<br>Limero hito a minutur | MICHULS ENGINEERING  | 0410+            |              | x ng         | 200.0         |      | 200          | 04/04          |                 |                 |              |           | а<br>0     | 3                                                                                           | ××9             |
| LUPELU NSSU A/ALUMINU          | T LUBECO INC.        | • 0020           | 70-1765      | ŝ            | 200.0         |      | 200          | 10/00          |                 |                 |              |           |            | Z                                                                                           | LFM             |
| LUGECO N356 A/ALUMINU          | I LUBECO INC.        |                  | 70-1765-3    | COX<br>COX   | 500.0         |      | <u>0</u>     | 00/02          |                 |                 |              |           | ~ <        | L DAE                                                                                       | JFM             |
| LUBECO W35C A/STAIMLES         | SS LUBECO INC+       | • 0050           | 70-1765-1    | XQS          | 500.0         |      | 200          | 00/07          |                 |                 |              |           | ۲<br>۲     | DAI                                                                                         | E.IFM           |
| LUBBLC P350 A/STAINLES         | SS LUBECO INC.       |                  | 70-1765-2    | ç0X          | 5 no. 0       |      | 2            | 00/02          |                 |                 |              |           |            | DAG                                                                                         | IFM.            |
| LUBECO N350A                   | LUBECO INC.          |                  | 71-2272      | <b>X0</b> 9  | 1500.0        |      | 20           | 00/00          |                 |                 |              |           |            |                                                                                             | EH.             |
| LUBECO N350A                   | LUBECD INC.          |                  | 71-2272-1    | 60 X         | 1500.0        |      |              | 40/00          |                 |                 |              |           |            |                                                                                             | 191             |
|                                |                      |                  |              | ::::         |               |      |              |                |                 |                 |              |           | í.         | í                                                                                           | 207             |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------|--------|-------|---------|-------------|----------------|-----------------|-------------|------------|----------------|
| V/V31 GENSE         MINESTANCI MOST DIV         MOST DI                                                                                                                                                                                                                                                                                                                                                                                                           | LUBECO N350A              | LUBECO INC.      |          |                                                                                                                                                                                | 71-2272-2    | COX          | 1000.0        | 1000   |       | £       | 1 664       | ,<br>6661      |                 | •           | 13         | DAEJEH         |
| CV711         CV71         CV71 <thcv71< th="">         CV71         CV71         <th< td=""><th>L9/3T GREASE</th><th>AIRESEARCH IN</th><td>DST DIV</td><td>- 0050</td><td>5P-6928</td><td>X O O</td><td>5.0</td><td>1000</td><td></td><td></td><td>104</td><td>6661</td><td></td><td>7</td><td>5</td><td><b>JE XXXX</b></td></th<></thcv71<>                                                                                                                                                                                                                                                                                  | L9/3T GREASE              | AIRESEARCH IN    | DST DIV  | - 0050                                                                                                                                                                         | 5P-6928      | X O O        | 5.0           | 1000   |       |         | 104         | 6661           |                 | 7           | 5          | <b>JE XXXX</b> |
| CVTY1         CVC         CVC </td <th>LS/31 GREASE</th> <th>ALKESEAKCH IN</th> <td></td> <td>0400.</td> <td>5P-6928-1</td> <td>ŝ</td> <td>25.0</td> <td></td> <td></td> <td></td> <td>138</td> <td>138</td> <td></td> <td><u>م</u></td> <td>61</td> <td>XXXXOO</td>                                                                                                                                                                                                                                                                                                                                                 | LS/31 GREASE              | ALKESEAKCH IN    |          | 0400.                                                                                                                                                                          | 5P-6928-1    | ŝ            | 25.0          |        |       |         | 138         | 138            |                 | <u>م</u>    | 61         | XXXXOO         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LY/SI GREASE              |                  |          | 06001                                                                                                                                                                          | 01-8769-45   | K ng         | 2000.0        |        |       |         | 466         | 466            |                 | 2           | Ē          | XXXXIIO        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LY/31 GREADE              |                  | UST 01V  | 0400.                                                                                                                                                                          | 5P-6928-11   | B            | 3000.0        |        | -     | 10/00   |             |                |                 | •           | 2          | DEXXXX         |
| Link         Allessment         Mark         Mark<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LY/31 GREASE              | ATRESEARCH IN    | 051 01V  | • 0650                                                                                                                                                                         | 5P-6928-12   | X 09         | 4000°0        |        |       | 10/00   |             |                |                 | 4           | 2          | DEXXXX         |
| LVX11         REASE         ATTREE         ATTREE <th>L9/31 GREASE</th> <th>AIRESEARCH IN</th> <th>DST 014-</th> <th>• • • • •</th> <th>SP-6928-13</th> <th>× OS</th> <th>0.0005</th> <th></th> <th>•</th> <th>0/04</th> <th></th> <th></th> <th></th> <th>◄</th> <th>10</th> <th>DBXXXX</th>                                                                                                                                                                                                                                 | L9/31 GREASE              | AIRESEARCH IN    | DST 014- | • • • • •                                                                                                                                                                      | SP-6928-13   | × OS         | 0.0005        |        | •     | 0/04    |             |                |                 | ◄           | 10         | DBXXXX         |
| LVX71         COM         COM <thcom< th=""> <thcom< th="" th<=""><th>L9/3T GREASE</th><th>ALRESEARCH IN</th><th>051 01V</th><th>.0503</th><th>5P-6928-14</th><th>X OS</th><th>3500.0</th><th>N</th><th>8</th><th>10/00</th><th></th><th></th><th></th><th>٩</th><th>11</th><th>DIJXXXX</th></thcom<></thcom<>                                                                                                                                                                                                                                                                                                                               | L9/3T GREASE              | ALRESEARCH IN    | 051 01V  | .0503                                                                                                                                                                          | 5P-6928-14   | X OS         | 3500.0        | N      | 8     | 10/00   |             |                |                 | ٩           | 11         | DIJXXXX        |
| NUMBER         ATTRESERT         Distribution         Constrained         Constrained         ATTRESERT         Distribution         Constrained         Constraind <thconstrained< th=""> <thcon< th=""><th>L9/3T GREASE</th><th>AIRESEARCH IN</th><th>DST DIV</th><th>• 0050</th><th>SP-6928-15</th><th>ŝ</th><th>4003.0</th><th></th><th>00</th><th>10/00</th><th></th><th></th><th></th><th>&lt;</th><th>11</th><th>DIJXXXX</th></thcon<></thconstrained<>                                                                               | L9/3T GREASE              | AIRESEARCH IN    | DST DIV  | • 0050                                                                                                                                                                         | SP-6928-15   | ŝ            | 4003.0        |        | 00    | 10/00   |             |                |                 | <           | 11         | DIJXXXX        |
| LVFF         REST         ATREST Rect         THOUST FORM         Se-0273-10         SO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | L9/3T GREASE              | ALRESEARCH IN    | 057 DIV  | .0050                                                                                                                                                                          | SP-6928-16   | X09          | 5000.0        |        | 8     | 0/04    |             |                |                 | •           | ~          | <b>NBYXXX</b>  |
| LVX1         RefX5         RefX1         RefX5         RefX1         RefX5         RefX1         RefX5         RefX1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | L9/3T GREASE              | AIRESEARCH IN    | 0ST 61V  |                                                                                                                                                                                | SP-6928-17   | ŝ            | 500.0         |        | 50    | 40/0C   |             |                |                 | •           | 11         | DBXXXX         |
| CVT31         CML         CML </td <th>L9/3T GREASE</th> <th>ATRESFARCH IN</th> <td>051 01V</td> <td></td> <td>SP-6928-18</td> <td>X09</td> <td>500.0</td> <td></td> <td></td> <td>00/04</td> <td></td> <td></td> <td></td> <td>• •</td> <td>9</td> <td>XXXXQQ</td>                                                                                                                                                                                                                                                                                                                                                  | L9/3T GREASE              | ATRESFARCH IN    | 051 01V  |                                                                                                                                                                                | SP-6928-18   | X09          | 500.0         |        |       | 00/04   |             |                |                 | • •         | 9          | XXXXQQ         |
| CV/31         CMARK         ANTESTER (1 1057 01V         COUST         ST-0010         TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LY/J/ GREASE              | ALKESCAKCH IN    |          |                                                                                                                                                                                | 5P-6928-19   | ŝ            | 1500.0        |        | 20    | 00/04   |             |                |                 | 4           | 2          | XXXXBO         |
| Transmist         ATTEX FRAME                                                                                                                                                                                                                                                                                                                                                | LT/JT GREASE              | AIRESEARCH IN    |          | • 0020                                                                                                                                                                         | SP-6928-2    | 203          | 20.0          |        |       |         | 760         | 760            |                 | 0           | 13         | DBXXXX         |
| CV731         Excess         Curve         Dots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LT/31 GREAVA              | AL HORARCH IN    |          | 0.00                                                                                                                                                                           | 5P-6928-20   | ŝ            | 1500.0        |        | -     | 10/10   |             |                |                 | - 1         | 2          | DBXXXX         |
| CV73T GREASE         ATRESFARCH TWOST DIV         COUND         Gat         TOD.0         Gat         TOD.0         Gat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LY/ 31 BREASE             |                  |          | n <nn•< td=""><td>6- 9760-4C</td><td>202</td><td>0.06</td><td></td><td></td><td></td><td><b>6</b>00</td><td>600</td><td></td><td>0</td><td>m<br/>~4</td><td>06XXXX</td></nn•<> | 6- 9760-4C   | 202          | 0.06          |        |       |         | <b>6</b> 00 | 600            |                 | 0           | m<br>~4    | 06XXXX         |
| LV731         GREASE         AIRESEARCH         INDST<01V         -0050         ST-928-5         GXX         500.0         640         460         460         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         601         6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | L9/3T GREASE              | AIRESEARCH IN    | DIV DIV  | • 0050                                                                                                                                                                         | 5 - 2626- t  | Š            | 100.0         |        |       |         | 530         | 530            |                 | 0           | £.1        | DBXXXX         |
| LV371         GRASE         Arrestanct         Hunst Tot         Cold         Dist         Dist <thdist< th=""> <thdist< th=""> <thdist< th=""></thdist<></thdist<></thdist<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | L9/3T GREASE              | AIRESEARCH IN    | DST DIV  | • 0050                                                                                                                                                                         | SP-6928-5    | ХO<br>СОХ    | 500.0         |        |       |         | 467         | 467            |                 | ٩           | 13         | <b>DBXXXX</b>  |
| LV371         REASE         AIMESERACH         MINESTACH         MINES                                                                                                                                                                                                                                                                                                                                                                                         | L9/3T GREASE              | AIRESEARCH IN    | 057 01V  | • 0050                                                                                                                                                                         | SP-(-928-6   | Š            | 1000.0        |        |       |         | 460         | 460            |                 | ٥           | ET         | DBXXXX         |
| Leval Relation         Allessment Hubst Div         -0050         SP-0620-6         GOX         1500-0         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541         541                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L9/3T GREASE              | AIRESEARCH IN    | OST DIV  | • 0050                                                                                                                                                                         | SP-6928-7    | 60X          | 1087.C        |        |       |         | 464         | 464            |                 | ٥           | 13         | DBXXXX         |
| Image: Simmary Real State         Antest and the state         Second for the state         Seco                                                                                                                                                                                   | L9/3T GREASE              | AIRESEARCH TN    | DST D1V  | • 0050                                                                                                                                                                         | SP-6926-8    | ž            | 1500.0        |        |       |         | 436         | 436            |                 | 0           | 13         | CBXXXX         |
| MARRES LINF         MARRES LINF         MOTON         MOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | L9/3T GREASE              | AIRESEARCH IN    | 0ST 01V  | • 0050                                                                                                                                                                         | SP-6928-9    | XOS          | 1565.0        |        |       |         | 547         | 547            |                 | ٥           | ET         | <b>BXXXX</b>   |
| MARMET         NIRE-TYPE         MAC         TO-21594         GOX         2000.0         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00         500.00 </th <th>MAGNESIUT OX P/N 803666</th> <th>NORTON CO.</th> <th></th> <th></th> <th>70-2192</th> <th>ŝ</th> <th>1500.0</th> <th></th> <th>Ī</th> <th>40/00</th> <th></th> <th></th> <th></th> <th>•</th> <th>2</th> <th>XXHETI</th>                                                                                                                                                                                                                                          | MAGNESIUT OX P/N 803666   | NORTON CO.       |          |                                                                                                                                                                                | 70-2192      | ŝ            | 1500.0        |        | Ī     | 40/00   |             |                |                 | •           | 2          | XXHETI         |
| MAGNET         WIRE-TYPE         Gat         Tool         50         00.04         A         11         FD           MAGNET         WIRE-TYPE         R         Gat         Tool         50         00.04         518         518         71         51         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71         55         71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MAGNET WIRE-TYPE H        | GAC              |          |                                                                                                                                                                                | 70-2158      | COX          | 2000.0        |        | Ŭ     | 40/00   |             |                |                 | ۹           | 2          | EPCOHS         |
| MAGNET         VIRE-TYPE         N.         51A         71B         51A         71B         51A         71B         71B <th71b< th="">         71B         71B         <th7< th=""><th>MAGNET WIRE-TYPE N</th><th>640</th><th></th><th></th><th>70-2158-1</th><th>Š</th><th>2500.0</th><th></th><th>202</th><th>20/04</th><th></th><th></th><th></th><th>4</th><th>11</th><th><b>FPCDHS</b></th></th7<></th71b<>                                                                                                                                                                                                                                                                                                                                         | MAGNET WIRE-TYPE N        | 640              |          |                                                                                                                                                                                | 70-2158-1    | Š            | 2500.0        |        | 202   | 20/04   |             |                |                 | 4           | 11         | <b>FPCDHS</b>  |
| RELANINE         R0TANY PLASTICS         71-2466         A-50         783.0         499         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71         71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAGNET WIRE-TYPE N        | CAI:             |          |                                                                                                                                                                                | 70-2158-2    | 80X          | 1400.0        |        |       |         | 518         | 518            |                 | ٥           | Ę          | E PCOHS        |
| MELANINE         RGTARY         TI-2460-1         A-50         727.0         466         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T <th< th=""><th>RELANINE</th><th>ROTARY PLASTI</th><th>cs</th><th></th><th>71-2488</th><th>A-50</th><th>763.0</th><th>667</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>15</th><th>CIL ASXX</th></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RELANINE                  | ROTARY PLASTI    | cs       |                                                                                                                                                                                | 71-2488      | A-50         | 763.0         | 667    |       |         |             |                |                 | -           | 15         | CIL ASXX       |
| Incommite         G-(- INSULATING MATLS         71-2597         A-50         764.0         501         71         5         5         1         5         5         1         5         5         1         5         5         1         5         5         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         5         7         1         7         1         7         1         7         1         7         1         7         1         7         1         7         1         7         1         7         1         7         1         7         1         7         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th="">         1<th>MELANIXE</th><th>RUTARY PLASTI</th><th>CS</th><th></th><th>71-2468-1</th><th>A-50</th><th>727.0</th><th>486</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>5</th><th>CIL A SXX</th></th1<>                                                                                                                                                                                                                                                                                                                                                                                                                                               | MELANIXE                  | RUTARY PLASTI    | CS       |                                                                                                                                                                                | 71-2468-1    | A-50         | 727.0         | 486    |       |         |             |                |                 | -           | 5          | CIL A SXX      |
| MICANATE         G.e. INSULATING MATLS         71-2597-1         A-50         819.0         524         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T         T <tht< t<="" th=""><th>MICANATTE</th><th>G.F. INSULATI</th><th>NG MATLS</th><th></th><th>71-2597</th><th>A-50</th><th>784.0</th><th>201</th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>51</th><th>FJHFXX</th></tht<>                                                                                                                                                                                                                                                                                                                                                                                                                                      | MICANATTE                 | G.F. INSULATI    | NG MATLS |                                                                                                                                                                                | 71-2597      | A-50         | 784.0         | 201    |       |         |             |                |                 | -           | 51         | FJHFXX         |
| MICANLY TYPE GF         MILL         MILL <th< th=""><th>HICANATTE</th><th>G.E. INSULATI</th><th>MG MATLS</th><th></th><th>71-2597-1</th><th>A-50</th><th>818.0</th><th>524</th><th></th><th></th><th></th><th></th><th></th><th>••</th><th></th><th>XXJH?</th></th<>                                                                                                                                                   | HICANATTE                 | G.E. INSULATI    | MG MATLS |                                                                                                                                                                                | 71-2597-1    | A-50         | 818.0         | 524    |       |         |             |                |                 | ••          |            | XXJH?          |
| MICARLY TYPE GF         PICA CORP         71-2680-1         A-50         746.0         513         7         15         CR           MICARLY - FPOXY GLASS LAM MICA CORP         70-2236-1         GOX         100.0         50         00.04         A         11         CR           MICARLY - FPOXY GLASS LAM MICA CORP         70-2236-1         GOX         1500.0         50         00/04         A         11         CR           MICARLY - FPOXY GLASS LAM MICA CORP         70-2236-2         GOX         1500.0         50         00/04         A         10         CR           MICARLY - FPOXY GLASS LAM MICA         CORP         70-2236-2         GOX         1500.0         50         00/04         A         10         CR           MICAR V + FPOXY GLASS LAM MICA         CORP         70-1990         GOX         1500.0         0         01/03         A         10         CR           MICAR QUARTZ THERM INSULROSEMONT FMC. CORP         70-1990         GOX         70-1900         000/04         A         10         CK           MICRO QUARTZ THERM INSULROSEMONT FMC. CORP         70-1990         GOX         1500.0         000/04         A         10         CK           MICRO QUARTZ THERM INSULROSEMONT FMC. CORP         70-1990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MICAPLY TYPE GF           | MICA CORP        |          |                                                                                                                                                                                | 71-2630      | A-50         | 774.0         | 515    |       |         |             |                |                 | -           | 25         | CRBGXX         |
| MICARLY-FPOXY GLASS LAM FICA CORP       70-2236       GOX       100000       493       493       493       493       0       13       GR         MICARLY-FPOXY GLASS LAM MICA CORP       70-2236-1       GOX       1500.0       50       00/04       10       71       0       13       GR       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       110       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MICAPLY TYPE GF           | PICA CORP        |          |                                                                                                                                                                                | 71-2680-1    | A-50         | 746.0         | 513    |       |         |             |                |                 | •           | 15         | CRBGXX         |
| MICARTYFERX       GLASS LANTICA CORP       70-2236-1       GCX       ISO0.0       50       00/04       10       R         MICARTYFERX       TERM INSURDSEMONF       EMC       70-2236-2       GCX       ISO0.0       50       01/03       7       10       CR         MICARTYFER       INSURDSEMONF       EMC       70-1990       GCX       ISO0.0       50       00/04       A       11       CK         MICRO       QUARTZ       THEM       INSURDSEMONF       EMC       70-1990       GCX       ISO0.0       50       00/04       A       13       CK         MICRO       QUARTZ       THEM       INSURDSEMONF       EMC       70-1990       GCX       ISO0.0       00/04       A       13       CK         MICRO       QUARTZ       THEM       INSURDSEMONT       EMC       70-1990       GCX       1500.0       00/04       A       13       CK         MICRO       QUARTZ       THEM       INSURDSEMONT       EMC       70-1751-1       GCX       5.0       1000       915       N999       Y       13       EPC         ML       POLY       CLD       TFELON       WIRE       70-1751-2       GCX       50.0       070<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MICAPL''' EPOXY GLASS LAN | I TICA CORP      |          |                                                                                                                                                                                | 70-2236      | ŝ            | 1000.0        |        |       |         | 493         | 493            |                 | ٥           | <b>E1</b>  | CRBGXX         |
| MICAPLY-EPOXY GLASS LAM MICA GURP       70-2236-2       G0X       1500.0       01/03       7       10       CR         MICEO QUARTZ THERN INSULROSEMONT ENG. CORP       70-1990       G0X       1500.0       50       00/04       A       11       CK         MICEO QUARTZ THERN INSULROSEMONT ENG. CORP       70-1990       G0X       1500.0       50       00/04       A       11       CK         MICEO QUARTZ THERN INSULROSEMONT ENG. CORP       70-1990-1       G0X       1500.0       00/04       A       12       CK         MICEO QUARTZ THERN INSULROSEMONT ENG. CORP       70-1990-1       G0X       1500.0       00/04       A       13       CK         MICEO QUARTZ THERN INSULROSEMONT ENG. CORP       70-1990-1       G0X       500.0       936       N999       Y       13       CK         NIL POLY CLO TEFLON WIRE       70-1751-2       G0X       50.0       915       N999       Y       13       FPC         ML POLY CLO TEFLON WIRE       70-1751-2       G0X       50.0       793       913       PC       794       70-1751-2       G0X       50.0       793       913       FPC       794       70-1751-2       G0X       50.0       794       713       FPC       794 <td< td=""><th>MICAPLY-EPUXY GLASS LAN</th><th>TICA CURP</th><td></td><td></td><td>1-9622-01</td><td>X DS</td><td>1500.0</td><td></td><td>20</td><td>40/00</td><td></td><td></td><td></td><td>•</td><td></td><td>CRBGXX</td></td<>                                                                                                                                                                                                                                                                                                                                                          | MICAPLY-EPUXY GLASS LAN   | TICA CURP        |          |                                                                                                                                                                                | 1-9622-01    | X DS         | 1500.0        |        | 20    | 40/00   |             |                |                 | •           |            | CRBGXX         |
| MICRO GUARTZ THERN INSULROSEMONT ENG. COK P         70-1990         GOX 1500.0         50         00/04         A         11         CKH           MICRO GUARTZ THERN INSULROSEMONT ENG. COK P         70-1990         GOX 1500.0         09/04         A         10         CKH         CHU         CKH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MICAPLY EPOXY GLASS LAN   | MICA CORP        |          |                                                                                                                                                                                | 70-2236-2    | ŝ            | 1500.0        |        | -     | 01/03   |             |                |                 | -           | 2          | CRBGXX         |
| MICRU QUARTZ THERM INSULROSEROW F ENG. COAP       70-1990       GOX 1500.0       09/04       A 10 CAH         MICRU QUARTZ THERM INSULROSEROW FENG. CORP       70-1990       60X 1500.0       0999       0999       A 13 EPC         MICRU QUARTZ THERM INSULROSEMONT ENG. CORP       70-1751       60X 1500.0       938       9999       Y 13 EPC         MI POLY CLO TEFLOW WIRE       70-1751-1       60X 25.0       1000       91S       9999       Y 13 EPC         MI POLY CLO TEFLOW WIRE       70-1751-2       60X 25.0       1000       91S       9999       Y 13 EPC         MI POLY CLO TEFLOW WIRE       70-1751-2       60X 25.0       1000       91S       9999       Y 13 EPC         MI POLY CLO TEFLOW WIRE       70-1751-2       60X 25.0       1000       91S       999       Y 13 EPC         MI POLY CLO TEFLOW WIRE       70-1751-2       60X 50.0       600       798       939       D 13 EPC         MI POLY CLO TEFLOW WIRE       70-1751-5       60X 50.0       600       679       679       D 13 EPC         MI POLY CLO TEFLOW WIRE       70-1751-5       60X 500.0       600       679       D 13 EPC       0 13 EPC         MI POLY CLO TEFLOW WIRE       70-1751-5       60X 500.0       600       0 13 EPC       D 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MICRO QUARTZ THERM INSU   | H ROSEMONT ENG.  | CO P     |                                                                                                                                                                                | 20-1990      | 60X          | 1500.0        |        | 50    | 0/04    |             |                |                 | <           | 1          | CKHKXX         |
| MICRO GUARTZ THERM INSULADS-MONT ENG. CORP       70-1990-1       GOX       ISOU       N999       N999       N999       Y       I3       CK         ML POLY CLO TEFLON WIRE       WILE       70-1751-1       GOX       5.0       1000       938       N999       Y       13       EPC         ML POLY CLO TEFLON WIRE       70-1751-1       GOX       25.0       1000       915       N999       Y       13       EPC         ML POLY CLO TEFLON WIRE       70-1751-2       GOX       25.0       1000       835       835       D       13       EPC         ML POLY CLO TEFLON WIRE       70-1751-2       GOX       50.0       798       939       D       13       EPC         ML POLY CLO TEFLON WIRE       70-1751-3       GOX       50.0       798       939       D       13       EPC         ML POLY CLO TEFLON WIRE       70-1751-4       GOX       50.0       679       D       13       EPC         ML POLY CLO TEFLON WIRE       70-1751-5       GOX       500.0       679       D       13       EPC         ML POLY CLO TEFLON WIRE       70-1751-5       GOX       500.0       679       D       13       EPC       00.0       D       D <th>MICRU QUARTZ THERM INSU</th> <th>ALROSEKONI ENG.</th> <td>COKP</td> <td></td> <td>70-1990</td> <td>Š</td> <td>1500.0</td> <td></td> <td>•</td> <td>00/07</td> <td></td> <td></td> <td></td> <td>4</td> <td>201</td> <td>CKHKXX</td>                                                                                                                                                                                                                                                                                                                                                                                               | MICRU QUARTZ THERM INSU   | ALROSEKONI ENG.  | COKP     |                                                                                                                                                                                | 70-1990      | Š            | 1500.0        |        | •     | 00/07   |             |                |                 | 4           | 201        | CKHKXX         |
| NL         POLY CLO TEFLON WIRE         70-1751         GOX         5.0         1000         9.38         N999         Y         13         EPC           NL         POLY CLO TEFLON WIRE         70-1751-1         GOX         25.0         1000         9.15         N999         Y         13         EPC           NL         POLY CLO TEFLON WIRE         70-1751-2         GOX         50.0         915         N999         Y         13         EPC           NL         POLY CLO TEFLON WIRE         70-1751-2         GOX         50.0         798         935         0         13         EPC           NL         POLY CLO TEFLON WIRE         70-1751-3         GOX         50.0         798         939         0         13         EPC           NL <poly clo="" td="" teflon="" wire<="">         70-1751-4         GOX         100.0         679         679         0         13         EPC           NL POLY CLO TEFLON WIRE         70-1751-5         GOX         500.0         617         0         13         EPC</poly>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MICRO QUARTZ THERM INSU   | R. ROSCHONT ENG. | CORP     |                                                                                                                                                                                | 70-1990-1    | 60 X         | 1500.0        | 1000   |       | ~       | 1 6661      | 6667           |                 | <           | 13         | CKHKXX         |
| ML         POLY CLD TEFLOW WIRE         70-1751-1         GOX         25.0         1000         915         N999         Y         13         EPC           ML         POLY CLD TEFLOW WIRE         70-1751-3         GOX         50.0         733         835         835         D1         33         EPC         D1         33         FPC         D1         23         FPC         D1         24         FDC         D1         24         FDC         D1         24         D1         25         D1         D1 <th>AL POLY CLD TEFLON WIRE</th> <th></th> <td></td> <td></td> <td>70-1751</td> <td>ŝ</td> <td>5.0</td> <td>1000</td> <td></td> <td></td> <td>938</td> <td>6667</td> <td></td> <td>&gt;</td> <td>13</td> <td>EPCNG1</td>                                                                                                                                                                                                                                                                                                                                                                                  | AL POLY CLD TEFLON WIRE   |                  |          |                                                                                                                                                                                | 70-1751      | ŝ            | 5.0           | 1000   |       |         | 938         | 6667           |                 | >           | 13         | EPCNG1         |
| ML         POLY         CLD         TESLON         MTRE         D         13         EPC           ML         POLY         CLD         TEFLON         MTRE         TO-1751-2         GOX         50.0         735         835         B35         D         13         EPC           ML         POLY         CLD         TEFLON         MTRE         TO-1751-3         GOX         50.0         798         939         D         13         EPC           ML         POLY         CLD         TEFLON         MTRE         TO-1751-4         GOX         100.0         6.79         679         D         13         Enc           NL         POLY         CLD         TEFLON         MTRE         TO-1751-5         GOX         500.0         A17         A17         D         13         EPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ML POLY CLD TEFLON WIRE   |                  |          |                                                                                                                                                                                | 70-1751-1    | XOS          | 25.0          | 1000   |       |         | 1 516       | 6667           |                 | 7           | 13         | EPCNG1         |
| ML POLY CLD TEFLON WIRE 70-1751-3 60X 50.0 798 939 0 13 FPC<br>ML POLY CLD TEFLON WIRE 70-1751-4 60X 100.0 679 679 0 13 EPC<br>ML POLY CLD TEFLON WIRE 70-1751-5 60X 500.0 817 817 0 13 EPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ML POLY CLD TE-LON WIRE   |                  |          |                                                                                                                                                                                | 70-1751-2    | COX<br>COX   | 50.0          |        |       |         | 835         | 835            |                 | 0           | 13         | EPCNC1         |
| ML POLY CLU TEFLON MIRE 70-1751-4 GOX 100.0 679 679 0 13 E <sup>o</sup> C<br>ML POLY CLO TEFLON WIRE 70-1751-5 GOX 500.0 817 817 0 13 EPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ML POLY CLD TEFLON NIRE   |                  |          |                                                                                                                                                                                | 70-1751-3    | X09          | 50.0          |        |       |         | 79.8        | 939            |                 | 0           | 5          | EPCNG:         |
| ML POLY CLU TEFLON NIRE 70-1751-5 GOX 500.0 BIT RI7 0 13 EPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ML POLY CLU TEFLOW WIRE   |                  |          |                                                                                                                                                                                | 70-1751-4    | Š            | 100.0         |        |       |         | 679         | 619            |                 | 0           | 13         | EPCNO!         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ML PULY CLU IEFLUN MIRE   |                  |          |                                                                                                                                                                                | 70-1751-5    | 603          | 20005         |        |       |         | A17         | A17            |                 | 0           | 6          | EPCNG1         |

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| RFGR S DESIGNATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MAMIFACTURER                                  | SPEC   | TEST RPT NO.                            | TFST        | TECT       | TECT        | TAMI | 40 OF        | FI A SH | 185 0                                                                                       | a () a | F   | ۲<br>۵               | MAT     |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------|-----------------------------------------|-------------|------------|-------------|------|--------------|---------|---------------------------------------------------------------------------------------------|--------|-----|----------------------|---------|--------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               | THICK. |                                         | ENVR        | PRESS      | TEMP        | ENER | REACT        | POINT   | 1                                                                                           | IST L  | 055 | -                    | 000     |        |
| ML POLY CLD TEFLON WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |        | 70-1751-6                               | Ň           | 1000.0     |             |      |              | 789     | 789                                                                                         |        |     | 0 13                 | EPCN    | 19     |
| M. POLY CLO TEFLON NIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |        | 70-1751-7                               | XOS         | 1500.0     |             |      |              | 714     | 714                                                                                         |        |     |                      | F PCA   | ģ      |
| M. POLY CLD TEFLON WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |        | 70-1751-8                               | žĝ          | 2000.0     |             |      |              | 720     | 720                                                                                         |        |     | 013                  |         | 1      |
| MN HETAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ALLEGHENY LUDLUM                              | •      | 71-2483                                 | A-50        | 746.0      | 511         |      |              | 1       | l                                                                                           |        |     | E IS                 | DHHO    | ××     |
| MN RETAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ALLEGHENY LUDLUM                              |        | 71-2483-1                               | A-50        | 732.0      | 510         |      |              |         |                                                                                             |        |     | 1 15                 |         | XX     |
| MOLYCOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1877                                 | 60X         | 1500.0     |             |      | 00/04        |         |                                                                                             |        |     | A 10                 | DAE     | 40     |
| MOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1877                                 | Š           | 16.5       | 1000        |      |              | 1 000N  | 6667                                                                                        |        |     | 51                   | OAE     | 90     |
| MOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1877-1                               | 60 X        | 25.0       | 10003       |      | -            | 4 6661  | 699                                                                                         |        |     | 13                   | CAE.    | 69     |
| MOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1877-10                              | X09         | 1500.0     | 1000        |      |              | 6667    | 6667                                                                                        |        |     |                      | E AE    | 9      |
| MOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1877-11                              | C0X         | 2000-0     | 1000        |      | -            | 4 6664  | 6661                                                                                        |        |     | 51 5                 | DAEJ    | 80     |
| MOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1677-12                              | KO2         | 950.0      | 1000        |      |              | 6667    | 6667                                                                                        |        |     | A U.3                | DAE     | GP     |
| MOLVKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1077-2                               | GOX         | 50.0       | 1000        |      |              | 928 1   | 6661                                                                                        |        |     | 5                    | DAEJ    | 80     |
| HOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA NOLYCOTE CORP                           |        | 70-1877-3                               | XU9         | 62.0       | 1000        |      |              | 1 6664  | 6661                                                                                        |        |     | A 13                 | DAEJ    | 90     |
| NOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1877-4                               | 60X         | 0.006      | 1000        |      | -            | 4 6564  | 6661                                                                                        |        | -   | A 13                 | DAE     | 90     |
| ROLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MULYCOTE CORP                           |        | 70-1877-6                               | Š           | 50.0       | 1000        |      |              | 6667    | 6667                                                                                        |        |     | <b>13</b>            | DAEJ    | 9      |
| MULTROTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP .                         |        | 70-1877-7                               | Š           | 100.0      | 1000        |      | -            | 6667    | 6667                                                                                        |        |     | 1 13                 | DAEJ    | G P    |
| MOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE COVP                           |        | 70-10/7-8                               | Š           | 500.0      | 1000        |      |              | - 669   | 6667                                                                                        |        |     | J 13                 | DAEJ    | 9      |
| MOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYCOTE CORP                           |        | 70-1877-9                               | K09         | 1000.0     | 1000        |      | -            | 4 6664  | 6661                                                                                        |        |     | 51 5                 | DAEJ    | б<br>С |
| HOLYKOTE X-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ALPHA MOLYKOTE CORP                           | •0020  | 70-1877-5                               | Š           | 1500.0     |             | 50   | 70/00        |         |                                                                                             |        |     | A 11                 | DAEJ    | 69     |
| MOLYKOTE X-15 ANS-5508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EAC                                           |        | 70-2147                                 | ×09         | 2000.0     |             |      | 40/00        |         |                                                                                             |        |     | A 10                 |         | ĒS     |
| MCLIXOTE X-15 AMS-5508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GAC                                           |        | 70-2147-1                               | Š           | 2000.0     |             | 50   | 40/00        |         |                                                                                             |        |     | A 11                 | OTHO    | E S    |
| Particular La Contra La Co | TOWNSEND CO.                                  |        | 1-+602-02                               | ž           | 1500.0     |             | 500  | 00/04        |         |                                                                                             |        |     | × 21                 | EL M    | Ë      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TOWNSEND CO.                                  |        | 7020042                                 | ž           | 1000.0     |             |      | 40/00        |         |                                                                                             |        |     | A 10                 | Ŧ       | ¥      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TOWNSEND CO.                                  |        | 70-2004-3                               | 80X         | 1500.0     |             |      | 40/00        |         |                                                                                             |        | ~   | A 10                 | ₹<br>U  | ¥      |
| NYKROY 750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HOLECULAR DIELECTRICS                         |        | 71-2712                                 | Ň           | 250.0      |             |      | <b>00/00</b> |         |                                                                                             |        |     | A 10                 | UH L    | XX     |
| MMLAR SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E+1 · DUPONT CO+1MC ·                         |        | 70-2028                                 | Sox         | 50.0       |             |      |              | 695     | 695                                                                                         |        | -   | 0 13                 | OUCE    | XX     |
| HYLAR SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E.I. DUPONT CO INC.                           |        | 70-2028-1                               | ×08         | 1500.0     |             |      | 40/00        |         |                                                                                             |        |     | A 10                 |         | XX     |
| MYLAR SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E+I+ DUPONT CO++INC+                          |        | 70-2028-2                               | <b>50X</b>  | 100.0      |             |      |              | 649     | 649                                                                                         |        | -   | 0 13                 | ouce    | XX     |
| AVLAR SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E.I. DUPONT CO INC.                           |        | 70-2028-3                               | Š           | 1000.0     |             |      |              | 440     | 440                                                                                         |        |     | 0 13                 | 0<br>NC | XX     |
| MALAR SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | C.I. DUPONT CO. INC.                          |        | 70-2028-4                               | COX<br>COX  | 1500.0     |             | ŝ    | 00/04        |         |                                                                                             |        |     | A 11                 | 5<br>C  | XX     |
| HTLAR SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E.I. DUPONT COINC.                            |        | 70-2028-5                               | Š           | 500.0      |             |      |              | 466     | 466                                                                                         |        |     | 0 13                 | DOG     | XX     |
| RTLAR SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E+I+ DUPONT CO+INC+                           |        | 70-2028-6                               | X OS        | 1500.0     |             |      |              | 386     | 386                                                                                         |        |     | 61<br>0              | 530     | X      |
| TICAN STELL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E-1 DUDNI CC+11/C                             |        |                                         |             | 0.02       |             |      |              | 567     | 061                                                                                         |        |     |                      |         | K X    |
| MILAN JACA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |        | 70-2020-0                               | 3           |            | F1 5        |      |              |         |                                                                                             |        |     | 61 O                 |         | K i    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |        |                                         | 3           |            |             |      |              | 5       | 541                                                                                         |        |     |                      |         | ĸ      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EALA DUCTORI CUALINCA<br>EALA DUBONT COALINCA | 0670.  | 70-2120                                 |             | 1500-0     |             |      | 10/10        |         |                                                                                             |        |     | 29                   |         | × ×    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |        |                                         |             |            |             |      | 0110         |         |                                                                                             |        |     |                      |         |        |
| #12 #F= #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | E-1- DUPUNI CU-11NC-<br>E-1- DUPUNI CO-11NC-  |        |                                         |             | 1500.0     |             |      |              |         |                                                                                             |        | -   |                      |         | XX     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E-1- D-DONT CO. TWC.                          |        | 70-2120-11                              |             |            |             |      |              |         |                                                                                             |        | -   | 25                   |         | K 2    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |        | 70-2120-12                              |             |            |             |      |              |         |                                                                                             |        | _   |                      |         | K 7    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |        | 70-2120-11                              | ŝ           |            |             |      |              |         | 1014                                                                                        |        | -   | 2:                   |         | K >    |
| NYLAR-A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | E-1- DUPCHT CO. INC.                          |        | 70-2120-3                               | ŝ           | 1000.0     |             |      |              | 204     | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |        |     | 35                   | 22      |        |
| HY AR-A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | E-1 DUPGNT CO. INC.                           |        | 70-2120-4                               | 4-50        | 0.977      | 505         |      |              |         | 1                                                                                           |        |     | )<br> <br> <br> <br> |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |        | , , , , , , , , , , , , , , , , , , , , | )<br>\<br>{ | ) <b>.</b> | \<br>><br>\ |      |              | •       |                                                                                             |        |     |                      | 200     | Š      |

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331 N600 495 00/04 00/04 00/04 00/04 00/04 01/01 01/01 00/04 00/03 01/03 01/02 04/04 01/01 01/01 02/02 01/01 00/04 02/02 50 50 50 5 2 2 423 497 504 498 600 513 1000-0 2000-0 2000-0 32500-0 45500-0 45500-0 15500-0 15500-0 15500-0 1753-0 1753-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 2500-0 25000-0 25 550.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 50 5000.0 71-2775-1 71-2775-2 71-2775-2 1-2774-10-52-9 1--2693 0750 0750 0750 0750 SEAL/LOS ANGLS R SEAL/LOS ANGLS NGL <u>33</u>3 . . . VICTOR EQUIPMENT VICTOR EQUIPMENT Rubbercraft Corp EQUIPMENT EQUIPMENT CORP AL/LOS 1/105 L/LOS RUBBERCRAFT AVCHEN ARKER ARKEN AXKER ARKER ARKER ARKEP AR KER **TUB ING** RANS RANS RANS COC-1 BUNA-N BUNA-N BUNA-N BUNA-N BUNA-N BUNA-N 2-5 BUNA-N BUNA-N BUNA-N BUNA-N BUNA-N としていい N-WNN NYLAR-A NYLAR-A HYLAR-A

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| MFGR S DESIGNATION     | MANUFACTURER             | SPEC.<br>THICK. | TEST RPT NO | . TEST<br>ENVR | TEST<br>PRESS | TEST .!<br>TEMP EI | VER R       | 0 0F FL | SH FIRE<br>NT PT | PROP<br>DIST | HT HOSS | А<br>Т Т<br>Т Т | NAU C      | ч留     |
|------------------------|--------------------------|-----------------|-------------|----------------|---------------|--------------------|-------------|---------|------------------|--------------|---------|-----------------|------------|--------|
| NEOPRENE SEATS         | VICTOR EQUIPMENT CO.     |                 | 71-2774-3   | Ň              | 1500.0        |                    | 0           | 101     |                  |              |         | 010             | CHC<br>CHC | DAXX   |
| NEDPRENE SEATS         | VICTOR EQUIPMENT CO.     |                 | 71-2774-4   | COX<br>COX     | 1000.0        |                    | 0           | 1/03    |                  |              |         | 07 0            |            | DRXX   |
| NEOPRENE SEATS         | VICTOR EQUIPMENT CO.     |                 | 71-2774-5   | ×93            | 500.0         |                    | õ           | 40/0    |                  |              |         | A               | EHO        | XXBO   |
| MEDPREME SEATS         | VICTOR EQUIPMENT CO.     |                 | 71-2783-1   | 50X            | 2500.0        |                    | ö           | 2/02    |                  |              |         | 010             | 3          | DBXX   |
| WEDPRENE SEATS         | VICTOR EQUIPMENT CO.     |                 | 71-2783-2   | ×99            | 1500.0        |                    | ò           | 1/01    |                  |              |         | 0 10            | UHU O      | DBXX   |
| HEOPRENE SEATS         | VICION EQUIPMENT CO.     |                 | 71-2783-3   | GOX            | 1000.0        |                    | õ           | 0/04    |                  |              |         | A 10            | 33         | N X NO |
|                        | KX.                      |                 | 70-1966     | A-50           | 745.0         | 667                |             |         |                  |              |         | 1               |            | ZUL    |
| D REAL C               | ۲.                       |                 | 701966-1    | A-50           | 812.0         | 512                |             |         |                  |              |         | 1 15            | ŧ          | NHIT   |
| WE STAN C              |                          |                 | 70-1966-2   | A-50           | 701.0         | 49 I               |             |         |                  |              |         | 1               |            | NNIT   |
|                        |                          |                 | 70-1966-3   | A-50           | 773.0         | 505                |             |         |                  |              |         | T 15            | UMP 1      | NHI    |
| NI SPAN C              |                          |                 | 701966-4    |                | 812.0         | 53R                |             |         |                  |              |         | 1               | DMP -      | NHIT   |
| NI SPAN C              |                          |                 | 70-1966-5   | T.W.W.         | 765.0         | 115                |             |         |                  |              |         | 1 15            | ŧ          | NW]    |
| WI SPAN C ALLOY 902    | GAC                      | -0750           | 70-2145     | ž              | 2000.0        |                    | ð           | 2/04    |                  |              |         | A 10            |            | 1111   |
| NI SPAN C ALLOY 902    | GAC                      | •0250           | 70-2145-1   | X09            | 2000.0        |                    | 00000       | 0/04    |                  |              |         | A LI            | 1<br>C     | NH I I |
| MI SPAN C ALLOY 902    | INTERNATIONAL NICKEL CO. |                 | 71-2338     | A-50           | 781.0         | 504                |             |         |                  |              |         | 1               |            | XXN    |
| MI SPAN C ALLOY 902    | INTERNATIONAL NICKEL CO. |                 | 71-2338-1   | A-50           | 746.0         | 494                |             |         |                  |              |         | T 15            |            | XXN    |
|                        |                          |                 | 71-2706     | A-50           | 813.0         | 523                |             |         |                  |              |         | 1 15            |            | NHIN   |
| MI-FE NO 51            |                          |                 | 71-2706-1   | A-50           | 780.0         | 519                |             |         |                  |              |         | 1 15            |            | ZXI    |
| NI-FE NO 52            | CARPENTER STEEL CORP     |                 | 71-2650     | A-50           | 750.0         | 512                |             |         |                  |              |         | 11              | NHC I      | NH I   |
| M1-FE NO 52            | CARPENTER STEEL CORP     |                 | 71-2650-1   | A-50           | 746.0         | 514                |             |         |                  |              |         | T 15            |            | NNI    |
| MI-TFE WIRE            | HITEMP WIRES INC         |                 | 71-2656     | A-50           | 784.0         | 509                |             |         |                  |              |         | 1 15            | EPH        | CNN    |
| NICHOL FILTER-WOVEN    | HAMILTON STANDARD        |                 | 70-2195     | 80X            | 2000.0        |                    | ŏ           | 0/04    |                  |              |         | A 10            |            | Ţ      |
| NICKEL ALLOY 200       | CAC                      | .0750           | 70-2121     | XOS            | 2000.0        |                    | ŏ           | 40/0    |                  |              |         | A 10            | DTH O      | XXN    |
| MICKEL ALLOY 200       | CAC                      |                 | 71-2395     | A50            | 799.0         | 490                |             |         |                  |              |         | 1               | HEC.       | XXN    |
| NICKEL ALLOY 200       | GAC                      |                 | 71-2395-1   | A-50           | 781.0         | 475                |             |         |                  |              |         |                 | DTN        | XXN    |
| NICKEL ALLOY 205       |                          |                 | 70-2123-5   | N204           | 253.6         | 86                 |             |         |                  |              |         | A 14            | DTH        | XXN    |
| NICKEL ALLOY 205       | GAC                      | .0750           | 70-2123     | Š              | 4500.0        | •                  | ŏ           | 0/04    |                  |              |         |                 | DIN        | XXN    |
| NECKEL ALLOY 205       | GAC                      |                 | 70-2123-1   | A-50           | 578.0         | 455                |             |         |                  |              |         | 1 15            | DIN        | XXNS   |
| MICKEL ALLCY 205       | GAC                      |                 | 70-2123-2   | A-50           | 451.0         | 431                |             |         |                  |              |         | 1 15            | DIM        | XXN    |
| MECKEL ALLOY 205       | GAC                      |                 | 70-2123-3   | A-50           | 841.0         | 541                |             |         |                  |              |         | 1 15            | DTH        | XXN    |
| MICKEL ALLUY 205       | GAC                      |                 | 70-2123-4   | N204           | 252.1         | 72                 |             |         |                  |              |         | A 14            | 014        | XXN    |
|                        | NAMBY AND HARMON         |                 | 71-2674-2   | ILL            | 768.0         | 540                |             |         |                  |              |         | T 15            | E E        | N      |
|                        | HANDY AND HARMON         |                 | 71-2674-3   |                | 811.0         | 515                |             |         |                  |              |         | T 15            | ж<br>щ     | R      |
|                        |                          |                 |             |                | 0.677         | £1 G               |             |         |                  |              |         | T 15            | E R        |        |
| NICORD BO WIRE         | MERTEN COLD A ALLOW      |                 | 1-4/07-1/   | 00-4           | 0-211         | 919                |             |         |                  |              |         |                 | a<br>a     | 3      |
| NICORC BO KIRE         | MESTERN SOLD + ALLOYS    |                 | 71-2522-1   |                | 10.010        | 914<br>613         |             |         |                  |              |         | - 12<br>- 12    |            |        |
| NICEDBRAZ FLUX-BRAZING | NALL COLMONY CORP.       |                 | 1041        | 202            |               |                    | 0           |         |                  |              |         | -               |            | 5      |
| NICROBRAZ FLUX-BRAZING | WALL COLMONOY CORP       |                 | 70-1943     | Š              | 1500.0        |                    | 25          |         |                  |              |         |                 |            | 222    |
| WICKOBRAZ FLUX-BRAZING | WALL COLMONDY CORP       |                 | 70-1943-1   | GOX            | 1500.0        | 000                | 5           | NOON    | NOOO             |              |         |                 |            |        |
| NICROBRAZ-50 PELLETS   | WALL COLMONOY CORP       |                 | 79-2196     | Ň              | 1500-0        | 2000               | 5           | 104     |                  |              |         |                 | ג ><br>ב ז | ***    |
| MECROBRAZ-50 PELLETS   | WALL COLMONDY CORP       |                 | 70-2196-1   | XC             | 1500.0        | Ľ                  | ; 2<br>ç    | 101     |                  |              |         |                 |            | < >    |
| NICROBRAZE ON 321 SS   | WALL COLMUNOY CORP       |                 | 71-2430     | , č            | 0.000         | •                  | 200         | 407     |                  |              |         |                 |            | ***    |
| WICROBRAZE ON 321 SS   | WALL COLMONDY CORP       |                 | 71-2430-1   | 202            | 4500.0        |                    | 22          |         |                  |              |         |                 |            | XXX    |
|                        |                          |                 |             | :              |               |                    | ;<br>;<br>; |         |                  |              |         | A 10            | ŗ          | X X X  |

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| NHGK > DESIGNATION      | RANUFACTURER                                   | SPEC.<br>THJCK. | TEST RPT NO. | TEST<br>ENVR | TEST<br>PRESS | TEMP | I MP T<br>ENER | NO DF<br>REACT | FLASH | FIRE<br>PT | PR0P | HT<br>LOSS | я<br>Т Т<br>Т Т |            | سا ہے۔     |
|-------------------------|------------------------------------------------|-----------------|--------------|--------------|---------------|------|----------------|----------------|-------|------------|------|------------|-----------------|------------|------------|
| WICROBRAZE DN 321 SS    | WALL COLMONDY CORP                             |                 | 71-2430-2    | A-50         | 791.0         | 487  |                |                |       |            |      |            | 1               | E X        | XXX        |
| MICROBRAZE IN 321 55    | WALL COLMONDY CORP                             |                 | 71-2430-3    | A-50         | 795.0         | 495  |                |                |       |            |      |            |                 |            |            |
| HECKOBRAZE-50 PELLETS   | WALL COLMONDY CORP                             |                 | 70-2196-2    | Š            | 1000.0        | 1000 |                |                | 066N  | 666N       |      |            |                 |            |            |
| MIDRO 5216              | WESTERN GOLD & PLATH CO.                       | _               | 71-2743      | A-50         | 819.0         | 525  |                |                |       |            |      |            | , -<br>, -      |            | NN         |
| N17%0 8216              | MESTERN GOLD & PLATH CO.                       |                 | 71-2743-1    | A50          | 774.0         | 515  |                |                |       |            |      |            | -               | L L        | NWN        |
| NEORO 8218              | MESTERN GOLD & PLATH CO.                       |                 | 71-2743-2    | HHH          | 808.0         | 536  |                |                |       |            |      |            |                 | i i i      | Z          |
| MICHO 8218              | MESTERN GOLD & PLATH CO.                       |                 | 71-2743-3    | III          | 839.0         | 541  |                |                |       |            |      |            | -               | ж<br>Ш     | NWD        |
| MORMATP 61-6013/3013KRI | WK+E/BORDEN IND.                               |                 | 71-2575      | COX<br>COX   | 6.2           | 600  |                |                | 499   | NADC       |      |            |                 |            | 1123       |
| WYLON CASKET            | VICTOR EQUIPMENT CO.                           |                 | 71-2778-1    | Š            | 2500.0        |      |                | 02/02          |       |            |      |            |                 | CHB        | XXX        |
| AMLON GASKET            | VICTOR EQUIPMENT CO.                           |                 | 71-2778-2    | COX          | 1000.0        |      |                | 10/10          |       |            |      |            |                 | E E        | SXX<br>SXX |
| AVLON GASKET            | VICTOR EQUIPMENT CO.                           |                 | 71-2778-3    | Š            | 509.0         |      |                | 00/04          |       |            |      |            | A               | CHB        | SXX        |
| WILLON GASKET           | VICTOR EQUIPMENT CO.                           |                 | 71-2780-1    | 60X          | 2500.0        |      |                | 02/02          |       |            |      |            | 0               | CHB        | XXS        |
| HYLDN CASKET            | VICTOR EQUIPMENT CO.                           |                 | 71-2780-2    | ŝ            | 1500.0        |      |                | 10/10          |       |            |      |            | 0               | CHB        | XXS        |
| HYLON CASKET            | VICTOR EQUIPMENT CO.                           |                 | 71-2780-3    | х<br>С       | 1000.0        |      |                | 10/10          |       |            |      |            | ă<br>o          | CHB        | SXX        |
|                         | VICTOR EQUIPMENT CO.                           |                 | 71-2780-4    | ŝ            | 500.0         |      |                | 00/04          |       |            |      |            | A l(            | CHB        | SXX        |
| HYLON GASKET-HUZZLE     | VICTOR EQUIPMENT CO.                           |                 | 71-2781-1    | XOS          | 2500-0        |      |                | 02/02          |       |            |      |            | 2<br>0          | CHB        | SXX        |
| NYLON GASKET-NOZZLE     | VICTOR EQUIPMENT CO.                           |                 | 71-2781-2    | Š            | 1000.0        |      |                | 10/10          |       |            |      |            | 10              | O CHB      | SXX        |
| AT DE CASKET-NOZLE      | VICTOR EQUIPRENT CO.                           |                 | 71-2781-3    | XOS          | 500.0         |      |                | 04/05          |       |            |      |            | 0               | CHB        | XXS        |
| WALDH ROD               |                                                |                 | 71-2685      | A-50         | 773.0         | 501  |                |                |       |            |      |            |                 | 6EH        | XX Z       |
| NAT ON ROO              |                                                |                 | 71-2685-1    | A-50         | 748.0         | 3    |                |                |       |            |      |            | T L             | BEH        | XX2        |
| WATCH SHEEL             |                                                |                 | 10-11        | ŝ            | 500.0         |      | 20             | 40/00          |       |            |      |            | 4               | BUD        | SXX        |
| WYL CON SHEET           | -                                              |                 | [0-44-]      | COX<br>COX   | 500.0         |      |                | 00/04          |       |            |      |            | A LC            | DUB        | XXS        |
| HALON SHEET             |                                                |                 | 10-44-2      | ž            | 4500.0        |      | 50             | 00/04          |       |            |      |            |                 | 008        | SXX        |
|                         | -                                              |                 | 10-44-3      | COX<br>COX   | 4500.0        |      |                | [0/[-)         |       |            |      |            | 1 10            | 008        | SXX        |
|                         |                                                |                 | 10-44-4      | Š            | 1500.0        |      |                | 01/01          |       |            |      |            | T L             | DUB<br>DUB | SXX        |
|                         |                                                |                 | 10-44-5      | 20X          | 1 100.0       |      |                |                | 376   | 376        |      |            | 0               | 800 I      | SXX        |
|                         | VICTOR EQUIPMENT CO.                           |                 | 71-278 :-1   | Š            | 2,00.0        |      |                | 02/02          |       |            |      |            | 20              | CHB        | SXX        |
| WW.CN SLIP RING         | VICTOR EQUIPMENT CO.                           |                 | 71-2782-2    | GOX          | 2000-0        |      |                | 10/10          |       |            |      |            | 0 10            | CHB        | SXX        |
| ALCON SELP RING         | VICTOR EQUIPMENT CO.                           |                 | 71-2782-3    | Š            | 1500.0        |      |                | 01/02          |       |            |      |            | 0               | CHB        | SXX        |
|                         | VICTOR EQUIPMENT CO.                           |                 | 71-2782-4    | X OS         | 1000.0        |      |                | 10/10          |       |            |      |            | 0 10            | CHB        | SXX        |
| MYLLON SLIV WING        | VICIUM EUUIPHENI CO.<br>Tashtev Pash           |                 | 71-2782-5    | X OS         | 5.00.0        |      |                | 10/00          |       |            |      |            | 7<br>4          | CH9        | XXS        |
|                         | TRIFTER CORP                                   |                 | 71-2438-1    |              | 0.0001        |      |                | 10/10          |       |            |      |            |                 |            | N X X      |
| NYLON THINE TOWOZEK     | WESTERN FILAMENT CO                            |                 | 71-2678      | A-50         | 777.0         | 511  |                |                | 103   | 103        |      |            | <br>            |            | ***        |
| WALDH TWINE TOMOZSK     | WESTERN FILAMENT CO                            |                 | 71-2678-1    | A-50         | 760.0         | 517  |                |                |       |            |      |            |                 |            |            |
| WHLOW TYING STRING      | E+I+ DUPONT CO++INC+                           |                 | 71-2436      | SCX<br>SCX   | 500.0         |      | 50             | 00/04          |       |            |      |            | - <b>-</b>      | 5 D8       | SXX        |
| HVLOW TVING STRING      | 'E.I. DUPONT COINC.                            |                 | 71-2436-1    | ŝ            | 5.00.0        |      |                | 10/10          |       |            |      |            |                 | E C B      | ××S        |
| NYLON/STATHLESS         |                                                |                 | 71-2545      | A~50         | 909.0         | 525  |                |                |       |            |      |            | 1               | BNN        | DBS        |
| ATLON/STAINLESS         |                                                |                 | 71-2595-1    | 05-4         | R15.0         | 521  |                |                |       |            |      |            | 1               | HINH S     | 085        |
| US-124/ALCUZ            |                                                |                 | 11-2004      | 06-4         | 0-111         | 510  |                |                |       |            |      |            | -               | XX         | ×××        |
| 405-124/AL202<br>#      | BARKA CAR CORP                                 |                 | /1-2604-1    | A-50         | 0.627         | 504  |                |                |       |            |      |            |                 | S AYX      | XXX        |
| P-665-7 POL VURETHANE   | PARKEN STAL/LUS ANGLS<br>Parker Stal/LOS Angls | 0220*           |              | x x y        | 25.00.0       |      |                | 00/04          |       |            |      |            | A (             | 55         | XX         |
| P-665-7 FUL YURETHANE   | PARKER SEAL/LOS ANGLS                          | +0750           | 10-84-2      | ŝ            | 1000.0        |      |                | 10/10          |       |            |      |            |                 |            |            |
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| MFGR S DESIGNATION       | MANUFAC TURER   |             | SPEC.  | TEST RPT NO.           | TEST       | TEST       | TEST | TAHI | NO OF | FLASH | FIRE  | dílard | Ē    | ⊢<br>α | MATL        |
|--------------------------|-----------------|-------------|--------|------------------------|------------|------------|------|------|-------|-------|-------|--------|------|--------|-------------|
|                          |                 |             | THICK. |                        | ENVR       | PRESS      | TEMP | ENER | REACT | LNIOd | ЪТ    | D157 L | .nss | <br>   | CUDE        |
| P-665-7 POLYURETHANE     | PARKER SEAL/L   | DS ANGLS    | •0750  | 10-84-3                | X QS       | 3500.0     |      |      | 01/03 |       |       |        |      | 2      | 0,40        |
| P-565-7 POL VURETHANE    | PARKER SEAL/L   | OS ANGI S   | .0750  | 10-84-4                | 20X        | 4000-0     |      |      | 20/10 |       |       |        |      |        |             |
| P-665-7 POLYURETHANE     | PARKER SEAL/L   | DS ANGLS    | •0750  | 10-34-5                | ξŪ.        | 4500-0     |      |      | 40/40 |       |       |        |      | 34     |             |
| P-665-7 POL TURETHANE    | PARKER SEAL/L   | OS ANGLS    | • 0750 | 10-84-6                | 60×        | 5000-0     | - ,  | 000  | 00/00 |       |       |        |      |        |             |
| PALINEY NO 7             | THE J.R. NEY    | 00          |        | 71-2742 .              | Xgy        | 250.0      | •    |      | 40/00 |       |       |        |      |        |             |
| PALENEY NO 7             | THE COMPANY     | 5           |        | 71 .742.11             | COX        | 250.0      |      | 50   | 40/00 |       |       |        |      |        |             |
| PALNIND-7                | GAC             |             | •      | 71-6-34                | A-50       | 771-0      | 767  | 1    |       |       |       |        |      |        |             |
| PALM 10-7                | GAC             |             |        |                        | 121        | 810.0      | 202  |      |       |       |       |        |      |        |             |
|                          | M SEC           |             |        |                        | 2          |            | 2    |      |       | 007   | 203   |        |      | - 4    |             |
| PARAFF TH-POPON          |                 |             |        | 70-2037-1              |            | 200<br>200 |      |      |       | 101   | 000   |        |      |        |             |
| PARAFFIN-STLICTOR CAR    |                 |             |        | 20-2020                |            |            |      |      |       | 3 4 4 |       |        |      |        |             |
| PREFETALS IN TARE CAR    |                 |             |        | 70-2020-1              | ŝ          |            |      |      |       |       |       |        |      |        | Nowe a      |
|                          |                 |             |        | 10-202 - F             |            | 10°0       |      |      |       |       | 1 4 0 |        |      |        | AWGH        |
|                          |                 |             |        |                        | ŝ          | 2.0        |      |      |       | 205   | 205   |        |      | 0 13   | AHGH        |
|                          |                 |             |        | 10-2025-01             | K OS       | 16.5       |      |      |       | 294   | 492   |        |      | 0      | ANGW        |
|                          | DI DM SFC       |             |        | 70-203B                | Š          | 6.2        |      |      |       | 492   | 492   |        |      | 0      | ANGN        |
| PARAFF IN-TUNGSTEN CAR   | <b>SI DMSFC</b> |             |        | 70-2038-1              | 60X        | 16.5       |      |      |       | 487   | 481   |        |      | 0 13   | ANGN        |
| PANCE CONFOUND 1050-70   | D PLASTICS + RU | BBER PRODS  |        | 69-1567                | Š          | 5.0        |      |      |       | 741   | 786   |        |      | 0 13   | DAJEG       |
| PARCO CONFOUND 1050-70   | ) PLASTICS + RU | BBER PRODS  |        | 69-1567-1              | COX        | 25.0       |      |      |       | 111   | 711   |        |      | 0 13   | DIJEG       |
| PARCO COMPOUND 1050-1    | U PLASTICS + RU | BBER PRODS  |        | 69-1567-2              | ŝ          | 50.0       |      |      |       | 657   | 657   |        |      | 0 13   | DUEG        |
| PARCO COMPOUND 1050-70   | PLASTICS + RU   | BBER PRODS  |        | 69-1567-3              | 60X        | 50.0       |      |      |       | 428   | 42 B  |        |      | 0 13   | DUEG        |
| PARCO COMPOUND 1050-74   | D PLASTICS + RU | BBER PRODS  |        | 69-1567-4              | ŝ          | 100.0      |      |      |       | 448   | 44B   |        |      | 0 13   | DUEG        |
| Pinco conforma 1050-70   | > PLASTICS + RU | BBER PRODS  |        | 69-1567-5              | Sox        | 500.0      |      |      |       | 388   | 388   |        |      | et o   | DUEG        |
| PINCO CONFOUND 1050-71   | D PLASTICS + RU | HABER PRODS |        | 69-1567-6              | Š          | 1000.0     |      |      |       | 392   | 392   |        |      | ET Q   | DUE         |
| MINE CONFILMED 1050-70   | PLASTICS & RU   | BBER PRODS  |        | 69-1567-7              | ×09        | 1500-0     |      |      |       | 336   | 386   |        |      | 0 13   | DUE.        |
| FANCO COMPOSING 10-50-70 | D PLASTICS + RU | BBER PRODS  |        | 69-1567-8              | š          | 2000.0     |      |      |       | 391   | 391   |        |      |        | DUEG        |
| PANCIO COMPOUNO 1237-70  | PLASTICS + RU   | BBER PRODS  |        | 69-1568                | 20X        | 25.0       |      |      |       | 756   | 756   |        |      | 0 13   | DVDP        |
| PARCO COMPOUND 1237-70   | PLASTICS + RU   | BBER PROUS  |        | 69-156B-1              | ŝ          | 50.0       |      |      |       | 720   | 720   |        |      | EI 0   | 900         |
| PARCO COMPOUND 1237-70   | PLASTICS + RU   | IGBER PRODS | •0750  | 69-1268-10             | GOX        | 200.0      | •••  | 00   | 10/10 |       |       |        |      | T 11   | DVDP        |
| PANCO COMPOUND 1237-70   | PLASTICS + RU   | BBER PRODS  | • 0750 | <del>69-1568-</del> 11 | Š          | 500.0      |      | 000  | 10/10 |       |       |        |      | TIL    | DVDP        |
| PARCO COMPOUND 1237-70   | PLASTICS + RU   | BBER PRODS  | .0750  | 69-1568 -12            | ×09        | 1000.0     |      | 8    | 19/10 |       |       |        |      | 11 1   | OVO         |
| PARCO CONFOUND 1237-70   | DEASTICS + RU   | BBER PRODS  | •0750  | 69-1568-13             | ž          | 1500.0     | •••  | 00   | 10/10 |       |       |        |      | T LI   | 90VC        |
| PLACO CONFOUND 1237-70   | PLASTICS + RU   | BBER PROPS  | .0750  | 69-1568-14             | ×09        | 2000.0     |      | 00   | 10/10 |       |       |        |      | 1 11   | 0 V D P     |
| PANCO CONFOUND 1237-7(   | ) PLASTICS + RU | BBER FROOS  |        | 69-1568-15             | ŝ          | 50.0       |      |      |       | 595   | 565   |        |      | 0      | 000         |
| PARCO COMPOUND 123 -70   | D PLASTICS + RU | BRER PRODS  |        | 69-1568-16             | X OS       | 100.0      |      |      |       | 551   | 551   |        |      | 0 13   |             |
| PARCO CONFOUND 1237-70   | PLASTICS + RU   | BBER PRODS  |        | 69-1568-17             | Š          | 1000.0     |      |      |       | 444   | 444   |        |      | D 13   | 9070        |
| PARCO COMPOUND 1237-70   | PLASTICS + RU   | BRER PRODS  |        | 69-1568-18             | COX<br>COX | 1500.0     |      |      |       | 397   | 397   |        |      | 0 13   | 0A0P        |
| PARCO COMPOUND 1237-70   | PLASTICS + RU   | BBER PRODS  |        | 69-1568-2              | ð          | 62.0       |      |      |       | 781   | 851   |        |      | 0 13   | 0<br>A<br>D |
| PANCO COMPOUND 1237-70   | PLASTICS + RU   | BBER PRODS  |        | 69-1568-3              | 60X        | 165.0      |      |      |       | 760   | 760   |        |      | 0 13   | 0100        |
| PANCE COMPOUND 1237-72   | DLASTICS + RU   | BBER PRODS  | •0220  | 69-1568-4              | ŝ          | 2000.0     |      |      | 10/00 |       |       |        |      | 10     | OV()        |
| PARCO COMPOUND 1237-70   | PLASTICS + RU   | 18868 PROD  | • 0750 | 69-1568-5              | 60 X       | 3000.0     |      |      | 10/00 |       |       |        |      | A NO   | CV0P        |
| PARCO COMPOUND 1237-76   | D PLASTICS + RU | BBER PRODS  | •0150  | 9-8951-39              | Š          | 3500.0     |      |      | 10/00 |       |       |        |      | A 10   | 10VCP       |
| PARCU CUMPJUND 1237-70   | D PLASTICS + RU | BRER PRIDS  | •0750  | 69-1568-7              | X OS       | +000+0     |      |      | 00/04 |       |       |        |      | A 10   | OVO         |
| PANCU CUMPUUNU 1237-7    | 0 PLASTI + RU   | BBFR PRODS  | +0150  | 691568-8               | Š          | 4500.0     |      |      | 01/02 |       |       |        |      | 5      | DVOP        |
| SI-1521 (MANAMON DISA4   | J PLASI . + RU  | IBBER PRIDS | •0150  | 69-1568-9              | 60X        | 5000.0     |      |      | 01/02 |       |       |        |      | 107    | 4UN()       |
|                          |                 |             |        |                        |            |            |      |      |       |       |       |        |      |        |             |

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| MFGR S DESIGNATIC  | z      | MANUFAC TUR  | lê R       |            | SPEC,<br>THICK. | TEST RPT NO.           | TEST<br>ENVR | TEST<br>PRESS | TEST | 1 MP T<br>E NER | NO OF    | FLASH | FIRF PI | P()P HT<br>15T L()SS | α -<br>      | A D<br>D                                      | 7L<br>DE     |
|--------------------|--------|--------------|------------|------------|-----------------|------------------------|--------------|---------------|------|-----------------|----------|-------|---------|----------------------|--------------|-----------------------------------------------|--------------|
| PARCO COMPOUND 92  | 20-70  | PLASTICS +   | - RUBBER I | PRODS      |                 | 70-1710                | X03          | 5.0           | 1000 |                 |          | 744   | 666N    |                      | -<br>-       | 3 0 V                                         | DFXX         |
| PARCO COMPOUND 92  | 20-70  | PLASTICS +   | RUBBERF    | PRODS      |                 | 1-0111-01              | 60X          | 25.0          |      |                 |          | 7.89  | 813     |                      | с<br>С       | 3 0 V                                         | DFXX         |
| PARCO COMPOUND 92  | 2070   | PLASTICS +   | P RUBBER   | PRODS      |                 | 11-0121-02             | ž            | 2000.0        |      |                 | 10/00    |       |         |                      | 4            | 0 0                                           | DFXX         |
| PARCO COMPOUND 92  | 20-10  | PLASTICS +   | KUBBER F   | PRODS      |                 | 70-1719-12             | ×09          | 2500.0        |      |                 | 00/04    |       |         |                      | 4            | 0 0                                           | DFXX         |
| PARCO COMPOUND 92  | 2010   | PLASTICS 4   | RUBBER     | PRODS      |                 | 70-1710-13             | š            | 3000.0        |      |                 | 01/02    |       |         |                      | 1            | ک<br>د<br>0                                   | DFXX         |
| PANCU CUMPOUNU 92  | 01-02  | PLASTICS +   | CLOBBER P  | RODS       |                 | 70-1710-14             | X QO         | 3500.0        |      |                 | 01/02    |       |         |                      | -            | х<br>о                                        | 01-XX        |
|                    |        |              | AUDDER     |            |                 |                        | ŝ            | 4000.0        |      |                 | 10/00    |       |         |                      | ₹,           | ≥<br>0                                        | DFXX         |
|                    |        | PLASTICS +   |            | PEODS      |                 | 70-1710-16             |              | 4500.0        |      | 000             | 40/40    |       |         |                      | ~~ •         | 2                                             | DFXX         |
| PARCO COMPOSIND 92 | 2020   | PLASTICS +   | RUMAFR 5   |            |                 |                        | K Ng         | 2500.0        |      | 2002            |          |       |         |                      | 4 <          |                                               | ×× 40        |
| PANCO COMPOUND 92  | 2070   | PLASTICS +   | RUBBER 1   | PR.005     |                 | 70-1710-19             | ŝŝ           | 3000.0        |      |                 | 10/00    |       |         |                      | 4            |                                               | DFXX         |
| PARCO CONPUUND 92  | 20-30  | PLASTICS +   | RUBBER F   | RODS       |                 | 70-1710-2              | 60 X         | 50.0          |      |                 |          | 718   | 7.85    |                      | - C          | i i i<br>i i i<br>i i i i i i i i i i i i i i | DFXX         |
| PARCO CONPOUND 92  | 20-70  | PLASTICS 4   | - RUBBER   | PRODS      |                 | 70-1710-20             | ŝ            | 3500.0        |      |                 | 00/01    |       |         |                      | <b>1</b> च   | 20 0                                          | DFXX         |
| PARCO COMPOUND 92  | 20-70  | PLASTICS +   | RUBBER P   | RODS       |                 | 70-1710-21             | čõ           | 4000.0        |      |                 | 00/01    |       |         |                      | A 1          | NO D                                          | DFXX         |
| PANCO CONFOUND 92  | 2-10   | PLASTICS 4   | P RUBBER   | PRODS      |                 | 70-1710-22             | XOS          | 4500.0        |      |                 | 00/04    |       |         |                      | 4            | <u>v</u> (i 0                                 | DFXX         |
| PARCO COMPOUND 92  | 20-10  | PLASTICS +   | RUBBER F   | PRODS      |                 | 70-1710-23             | X GO         | 5000.0        |      |                 | 10/10    |       |         |                      | 1            | 20 0                                          | DFXX         |
| PARCO COMPONNO 92  | 20-10  | PLASTICS 4   | P RUBBER   | PRODS .    |                 | 42-01/1-04             | KO2          | 2000.0        |      | 200             | 00/04    |       |         |                      | 4            | 100                                           | DFXX         |
| PARCO COMPOUND 9   | 20-70  | PLASTICS +   | RUBBER F   | ROCS       |                 | 70-1710-3              | 20X          | 50.0          |      |                 |          | 574   | 574     |                      | 2            | 30 E                                          | DFXX         |
| PARCO COMPOUND 92  | 20-10  | PLASTICS 4   | KUBT R     | PRODS      |                 | 70-1710-4              | Š            | 100.0         |      |                 |          | 562   | 562     |                      | 4            | 3 00                                          | DFXX         |
| PARCO COMPOUND 92  | 2020   | PLASTICS +   | PARABER F  | PRODS      |                 | 70-1710-5              | X OS         | 200.0         |      |                 |          | 480   | 480     |                      | 0            | JO E                                          | DFXX         |
| PARCO COMPOUND 92  | 20-10  | PLASTICS 4   | - RUBBER   | PRODS      |                 | 70-1710-6              | Š            | 1000.0        |      |                 |          | 442   | 440     |                      | <b>-</b>     | 3 0                                           | DFXX         |
| PARCO CONPOUND 92  | 20-13  | PLASTICS +   | RUBBER     | PRODS      |                 | 70-1710-7              | X OS         | 1500.0        |      |                 |          | 414   | 4]4     |                      | 0            | 20 6                                          | DFXX         |
|                    | 20-10  | PLASTICS 4   | P RUBBER   | PRODS      |                 | 20-1110-8              | X CO         | 2000.0        |      |                 |          | 419   | 419     |                      | 5            | 90 6                                          | DFXX         |
|                    | 21-02  |              | PRUBBER F  |            |                 | 70-1710-8              |              | 2000.0        |      |                 |          | 4]9   | 419     |                      |              | 20                                            | DFXX         |
|                    | 2-07   | PLASTICS +   | P KUBBEK   | PROUS      |                 | 70-1710-9              | N CO         | 16.5          |      | ļ               | •        | 844   | 861     |                      | X            | 30                                            | DFXX         |
|                    | 75-75  | PLASTICS +   | RUBBER F   | PRODS      | • 0150          | 70-1951                | X            | 5000.0        |      | 20              | 40/00    |       |         |                      | 4            | Ë.                                            | DFXX         |
|                    | 5-51   |              | - RUBBEK 3 | PRUUS      | 0610.           | 10-1951-1              | X CS         | 0.0004        |      | i               | 00/04    |       |         |                      | 4            | U<br>U<br>O                                   | DF X X       |
|                    |        | WILLIAM 1-   | DEAT INC   | • •        |                 | 1861-01                | X05          | 1500-0        |      | ŝ               | 00/04    |       |         |                      | ۲ م<br>م     | I AB                                          | XXXX         |
|                    |        |              |            | . د        |                 | 1841-0/                |              | 0-00-1        |      |                 | 00/04    | 1     |         |                      | 4            | 6¥ 0                                          | XXXX         |
| PRX CFRANT CANT    | 1-0    |              | NI WY NI   | . •<br>• • |                 | 70-1988                | Ň            |               | 000  | 5               | - 707 00 |       | 666N    |                      | <            | 94<br>94<br>94                                | XXXX         |
| PBX CERANIC CHNT   |        | N.WILLIAM T. | DEAN INC   |            |                 | 70-1988                | , XQ         | 1500.0        |      | R               | 40/00    |       |         |                      |              |                                               |              |
| PBX CERAMIC CANT   | P-1 SC | NUBLLIAN T   | BEAM INC   |            |                 | 70-1988-1              | Š            | 1000.0        | 1000 |                 | -        | 0661  | 000N    |                      | 4 - 1<br>1 a |                                               | XXOH         |
| PC-12-007          |        | HYSOL CORP   | -          |            |                 | 70-1963                | 60X          | 1500.0        |      |                 | 10/10    |       |         |                      | 7            | OAL                                           | XXTO         |
| PC-12-007          |        | HASOL COR    | •          |            |                 | 70-1963-1              | Š            | 1500.0        |      | 50              | 00/04    |       |         |                      | 4<br>1       | 1 AL                                          | <b>XXL</b> 8 |
| PC-12-007          |        | HASOL CORF   |            |            |                 | 70-1963-2              | A-50         | 413.0         | 515  |                 |          |       |         |                      | -            | 5 AL                                          | B.IXX        |
| PC-12-007          |        | HYSOL CORI   |            |            |                 | 70-1963-3              | A-50         | B18.0         | 522  |                 |          |       |         |                      | 1            | 5 AL                                          | BJXX         |
| PC-12-007          |        | HYSOL CORP   |            |            |                 | 70-1963-4              | A-50         | 191.0         | 497  |                 |          |       |         |                      | T L          | 5 AL                                          | メメプロ         |
|                    |        |              |            |            |                 | 70-1963-5              | A-50         | 827.0         | 262  |                 |          |       |         |                      | -            | 5 ÅL                                          | BJXX         |
| PC-12-007          |        | HY SOL CORP  |            |            |                 | 70-1963-6              | 60X          | 1000-0        |      |                 |          | 300   | 300     |                      | 2            | 3 AL                                          | XXCE         |
| PE-100 ADHESIVE    | TAPE , | PERMACEL     | TAPE CORP  | •          |                 | 70-2047                | õ            | , i<br>, i    | 600  |                 | -        | N600  | N600    |                      |              | 3 DZ                                          | GUFY.        |
|                    |        | INSULEC INC  |            |            |                 | 71-2688<br>71-2408-1   | x            | 0.00.5        |      | 50              | 00/07    |       |         |                      | 4 1<br>4 1   | ц.<br>Ч.                                      | DEX          |
| PERMILOR & STI     |        |              |            |            |                 | /)=2045-1<br>7/ 3400-3 |              | 0.0001        |      |                 | ノハノイハ    |       |         |                      | - (          | י ס<br>די                                     | DEXX         |
| ILC 7 JORIMALL     |        | IN JULECIAL  |            |            |                 | 1                      | 1917         | 1000-0        |      |                 |          | 525   | 520     |                      | 1            | 3                                             | IF X X       |

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| DESIGNATION      |                                               |          |            |            |             |             |             |                |             |      |      |             |              |
|------------------|-----------------------------------------------|----------|------------|------------|-------------|-------------|-------------|----------------|-------------|------|------|-------------|--------------|
|                  |                                               | THICK.   |            | ENVR       | PRESS 1     | LEMP EN     | ER REA      | CT P01         | NT PT       | DIST | L055 | ·           | CODE         |
|                  | HERCULES INC                                  |          | 71-2922    | XQS        | 1000.0      |             |             | 72             | 7 0         | 0    |      | -<br>C      | CA ARY       |
|                  |                                               |          | 71-2022-1  | AU3        | 1601.0      | ų           | 0000        | č              |             | ,    |      |             |              |
|                  |                                               |          | 71-2022-2  |            |             | •           | 22          | 52             |             |      |      | 1           |              |
| _                |                                               |          | 71-2316    | 4.50       | 6 4 6 4 0 C | £73         |             |                |             |      |      |             |              |
|                  |                                               |          | 71-2216-1  |            |             |             |             |                |             |      |      |             |              |
|                  |                                               |          |            |            |             |             |             |                |             |      |      | - ,         |              |
| _                |                                               |          | 71-2214-1  |            |             | 515         |             |                |             |      |      | - 1         |              |
| AI K VD 422      | ALLEN CLEM CABD                               |          | 71-2675    |            |             |             |             |                |             |      |      |             |              |
| ALKYN 422        | ALLIED CHEM COD                               |          | 71-2476-1  |            |             | r 4<br>- 4  |             |                |             |      |      | - 1         |              |
|                  | HELICO CHER CONT<br>MANTI TOM DARCI DUG METAL | Ļ        | 1-6102-11  |            | 102.00      | 1<br>7<br>7 |             |                |             |      |      | -           | LUAUX        |
|                  | HANILIUM FRECIUUS SEIAL                       | <i>.</i> | 21 0220    |            | 0.0001      | n           |             | + +            |             |      |      | <           | T X X X X    |
| n LUDALI MAGNELS | MARILIUM PRELIUUS METAL                       | ,<br>,   | 71-2369-1  | ŝ          | 1500.0      |             | 8           | 40<br>40       | •           |      |      | <b>A</b> 10 |              |
|                  | PELMORE LADS                                  |          | 10-1814-16 | 20X        | 950.0       |             |             | 52             | 52.0        | œ    |      | 0           | ABDFX        |
| D VITCH          | PELHORE LABS                                  |          | 70-1814    | ŝ          | 50.0        |             |             | 65             | 2 65        | 2    |      | 0           | ABDFX        |
| D VITON          | PELMORE LABS                                  |          | 70-1314    | ×09        | 1500.0      | ŝ           | 700<br>0    | 40             |             |      |      | A 11        | ABDFX)       |
| D VITON          | PELMORE LABS                                  | •        | 70-1814    | ŝ          | 1500.0      |             | 01/0        | 20             |             |      |      | 1 20        | ABDFX        |
| NOLIA 0          | PELMORE LABS                                  |          | 70-1814-1. | 60 X       | 50.0        |             |             | <b>1</b> 9     | 79          | ~    |      | 0           | ABDFX        |
| O VITON          | PELMORE LABS                                  |          | 70-1814-10 | ×03        | 62.0        | 000         |             | 90             | 4 N99       | D    |      | 0           | ABDFX        |
| O VITON          | PELMORE LABS                                  | + 0050   | 11-+18102  | 20X        | 3000.0      |             | 700         | 40             |             |      |      | ALO         | ACOFXI       |
| D VITON          | PELMORE LABS                                  | • 00 50  | 70-1814-12 | š          | 3500.0      |             | 01/         | 02             |             |      |      | 1           | ABDFX        |
| D VITON          | PELMORE LABS                                  | • 0050   | 70-1814-13 | XOS        | 0.0004      |             | 140         | 40             |             |      |      | 1 10        | ABOFX        |
| NOTIN 0          | PELMORE LABS                                  | • 0050   | 70-1814-14 | 25         | 3000.0      | 20          | V 00 0      | 04             |             |      |      | <pre></pre> | ABDFX        |
| NOTION           | PELHORE LABS                                  | • 0050   | 70-1814-15 | XOS        | 00000       | 20          | <<br>0<br>0 | 04             |             |      |      | T           | ABDFX        |
| O VITON          | PELMORE LADS                                  |          | 70-1814-2  | ŝ          | 100.0       |             |             | 66             | 99 66       | 0    |      | 0           | ABOFX        |
| MOLEA O          | PELMORE LABS                                  |          | 70-1814-3  | 50X        | 165.0       |             |             | 52             | 18 1        | ~    |      | 0 13        | ABOFX        |
| U KITON          | PCLINUAE LABS                                 |          | 70-1814-4  | Š          | 500.0       |             |             | 57             | 0 57        | 0    |      | 0           | ABDFX        |
| D VITCH          | PELMORE LABS                                  |          | 70-1814-5  | COX        | 0006        |             |             | 15             | 7 51        | 7    |      | 0 13        | ABDFX        |
| D VITON          | PELNORE LABS                                  |          | 70-1814-6  | ě          | 1000.0      |             |             | 53             | 6 53        | 9    |      | 0           | ABOFX        |
| D VITON          | PELNORE LABS                                  |          | 70-1814-7  | COX<br>COX | 1500.0      |             |             | 4              | 0<br>4<br>0 | ér.  |      | 0           | ABDFX        |
| NITCH            | PEIA.RE LABS                                  |          | 70-1814-8  | Š          | 2000-0      |             |             | 42             | 6 42        | ¢    |      | 0           | AUDFX        |
| NOT24 0          | PFLAUXE LABS                                  |          | 70-1014-9  | ×09        | 25.0 ]      | 000         |             | 66N            | 66N 6       | •    |      | 0           | ABDFX)       |
| ERMALEX/200      | CSSEX WIRE CORP                               | .6750    | 70-2692    | ŝ          | 1500.0      | ŝ           | ~<br>8<br>0 | 40             |             |      |      | A L         | XXXX         |
| ERMALEX/200      | ESSEX WIRE CORP                               |          | 10-2092-1  | COX        | 1000.0      |             |             | 66N            | 66N 6       | đ    |      |             | EXXXX        |
| EXMALEX/200      | ESSER WIRE CURP                               | +0150    | 10-2-02-0  | Ň          | 1500.0      |             | 00          | 40             |             |      |      | × I         | EXXXX        |
|                  | AIRESEARCH INDST DIV                          |          | 69-1296    | X OS       | 25.0        |             |             | 56             | 2 56        | 2    |      | 2           | DUCEX        |
|                  | AIRESEARCH INDST DIV                          |          | 69-1296-1  | ð          | 50.0        |             |             | <del>6</del> 4 | 5           | 5    |      | 0           | DUCFX        |
|                  | ALAESEAACH INDST DIV                          |          | 69-1296-2  | GOX        | 62.0 ]      | 000         |             | 88             | 66N 6       | đ    |      | 2           | DUCEX        |
| ELENE            | ATRESEARCH INDST DIV                          |          | 69-1296-3  | š          | 165.0       |             |             | 53             | 1 58        | 1    |      | 0           | DUCFX        |
|                  | AFALSE ARCH INDST DIV                         |          | 69- 296-4  | 60 X       | 50.0        |             |             | 32             | 4           | ÷    |      | 0           | DUCEX        |
| ELENE            | AIRESEARCH INDST DIV                          |          | 69-1296-5  | 80X        | 100.0       |             |             | 27             | 3 27        | 3    |      | 0           | <b>LUCFX</b> |
| ELENE            | AIRESEARCH INDS 7 ULV                         |          | 69-1296-6  | 50X        | 500.0       |             |             | 25             | 1 25        |      |      | 0           | DUCEX        |
|                  | AIRESEARCH INDST DIV                          |          | 69-1296-7  | Š          | 1000.0      |             |             | 28             | 6 28        | 9    |      | 0           | DUCFX        |
| EL ENE           | AIRESEARCH INOST DIV                          |          | 69-1296-8  | GOX        | 1500.0      |             |             | 26             | 1 26        | -    |      | с<br>С      | DUCFX        |
| ELENE            | AIRESEARCH INDST DIV                          |          | 69-1296-9  | GUX        | 2000.0      |             | 1           | õ              | 7 30        | ~    |      | 0           | DUCFX        |
| PRENE            | NR DDWNEY                                     |          | SP-6926    | GOX        | 1000.0      | ſ           | V00 0       | 04             |             |      |      | A 11        | 0001X        |
|                  |                                               |          |            |            |             |             |             |                |             |      |      |             |              |

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| MFGA S DESIGNATION       | MANUFAC TURER         | SPEC.<br>THICK. | TEST RPT NO. | TEST<br>ENVR | TEST<br>PRESS | TEST I | MPT N | U OF F  | LASH P | TRE P       | RUP<br>1 ST 4 1 | 130 | а н<br>н н                   | MAT.<br>CODE |
|--------------------------|-----------------------|-----------------|--------------|--------------|---------------|--------|-------|---------|--------|-------------|-----------------|-----|------------------------------|--------------|
|                          |                       |                 |              |              |               |        |       |         |        |             | •               | 2   | •                            | 200          |
| PULY ISUPREME            | MR DOWNEY             |                 | SP-6926-1    | Š            | 1000.0        |        | 000   | 0/04    |        |             |                 |     | 4 11<br>4                    | 000 I X      |
| POLYISOPRENE             | NR DOWNEY             |                 | SF-6926-2    | LOX          | 14.7          |        | 50 0  | 0/04    |        |             |                 | -   | A 16                         | 000 I XI     |
| 491-X-77*80711-X4        | PRECISION RUBBER PROD |                 | 70-1776      | Š            | 25.0          |        |       |         | 735    | 735         |                 |     | 0 13                         | CX 4000      |
| 69)-H-77-902 77-H-       | PRECISION RUBBER PROD |                 | 1-9271-07    | COX          | 50.0          |        |       |         | 724    | 724         |                 | -   | 0<br>13                      | 0000         |
| PR-11203 27-R-765        | FRECISION RUBBER PROD |                 | 70-1776-10   | Š            | 1500.0        |        |       |         | 471    | 471         |                 |     | 0 13                         | 000PX        |
| PR-11208.22-R-745        | PRECISION RUBBER PROD | •               | 70-1776-11   | xog          | 2000.0        |        |       |         | 464    | 494         |                 | -   | 0 13                         | 000PX        |
| PR-11208.22-R-765        | PNECISION RUBBER PROD |                 | 70-1776-12   | õ            | 950.0         |        |       |         | 41?    | 412         |                 |     | D 13                         | 000PX        |
| PR-11208+22-R-765        | PRECISION RUBBER PRUD |                 | 70-1776-2    | 60 X         | 62.0          | 1000   |       |         | 751 N  | 666,        |                 | -   | 0 13                         | DOD P X      |
| PR-11208+22-R-765        | PRECISION RUBBER PROD |                 | 70-1776-3    | ×09          | 165.0         |        |       |         | 7 R 5  | <b>Р</b> 17 |                 |     | 0 13                         | 000P X       |
| PR-11208+22-R-765        | PRECISION RUBBER PROD | • 4750          | 70-1776-4    | 60 X         | 1500.0        |        | U     | 10/10   |        |             |                 | •   | 1 10                         | CX40D0       |
| PR-11208+22-R-765        | PRECISION RUBBER PROD | •0150           | 70-1776-5    | X CO         | 1500.0        |        | 50    | a 40/00 |        |             |                 |     | A 11                         | DODPX        |
| PR-11208.22-R-765        | PRECISION RUBBER FROD |                 | 70-1776-6    | 60X          | 50.0          |        |       | •       | 669    | 66R         |                 | -   | 0 13                         | 000PX)       |
| PR-11208.22-R-765        | PRECISION RUBBER PROD |                 | 70-1776-7    | Š            | 100.0         |        |       |         | 582    | 582         |                 | -   | 0 13                         | 000PX        |
| PR-11208•22-2-765        | PRECISION RUBBER PROD |                 | 70-1776-8    | 60X          | 500.0         |        |       |         | 506    | 506         |                 | -   | 0 13                         | DODPX        |
| PR-11208-22-R-765        | PRECISION RUBBER PROD |                 | 70-1776-9    | Š            | 1000.0        |        |       | •       | 49 R   | 498         |                 | -   | 0 13                         | DOCPX        |
| PR-11208.22-R-775        | PRECISION RUBBER PROD |                 | 71-2303      | 60)          | 2000.0        |        | 0     | 11/0.   |        |             |                 | ·   | 1 10                         | DVUPXI       |
| PR-11208+22-R-775        | PRECISION RUBBER PROD |                 | 71-2303-1    | GOX          | 1500.0        |        |       |         | 505    | 505         |                 |     | 0 13                         | DVCPX        |
| -R-1538                  | PRODUCI. RESEARCH     |                 | 71-5002      | COX          | 5000.0        |        | 50    | 0/04    |        |             |                 | -   | A 11                         | BALOXI       |
| 8ES1-34                  | PRODUCTS RESEARCH     |                 | 71-5002-1    | š            | 1000.0        |        | 0     | 10/10   |        |             |                 | •   | 1 10                         | BACDA        |
| PR-1538                  | PRODUCTS RESEARCH     |                 | 71-5002-2    | COX          | 500.0         |        | 0     | 1/02    |        |             |                 | •   | T 10                         | BACOXI       |
| PR-1536                  | PRDDUCTS RESEARCH     |                 | 71-5002-3    | ×09          | 500.0         |        | Ű     | 10/10   |        |             |                 |     | T 10                         | DAC QX)      |
| PR-1538                  | PRODUCTS RESEARCH     |                 | 71-5002-4    | 60X          | 1500.0        |        | 0     | 10/1    |        |             |                 | •   | T 10                         | BACOXI       |
| PR-1538                  | PRDDUCTS RESEARCH     |                 | 71-5002-5    | COX          | 500.0         |        | Ű     | 0/04    |        |             |                 |     | 1 10                         | BACQXI       |
| PR-1538                  | PRODUCTS RESEARCH     |                 | 71-5002-6    | GOX          | 500.0         |        | C     | 1/03    |        |             |                 | •   | T 10                         | BACOXI       |
| PR-1538                  | PRODUCTS RESEARCH     |                 | 71-5002-7    | Š            | 500.0         |        | Ű     | 11/04   |        |             |                 |     | T 10                         | BAC.QX)      |
| PR0-SEAL 333C            | COAS' PRO SEAL        |                 | 71-2591      | A-50         | 769.0         | 519    |       |         |        |             |                 | •   | T 15                         | AKGUX)       |
| PR0-SEAL 333C            | COAST PRO SEAL        |                 | 71-2591-1    | A-50         | .765 .0       | 115    |       |         |        |             |                 |     | T 15                         | AKGUX        |
| PWC 3025-146             | 3M CO. ST. PAUL       |                 | 71-2554      | A-50         | 439.0         | 425    |       |         |        |             |                 | •   | T 15                         | E ZCUX)      |
| PVC 3025-140             | 3M CO. 57. PAUL       |                 | 71-2554-1    | A-50         | 574.0         | 465    |       |         |        |             |                 |     | 1 15                         | EZCUX        |
| PYRE HL COAT WIRE        | AIRESEARCH INDST DIV  |                 | 71-2521      | HHH          | 767.0         | 502    |       |         |        |             |                 | •   | T 15                         | E PCON       |
| PYRE M COAT WIRE         | AIRESEARCH INDST DIV  |                 | 71-2521-1    | IN           | 779.0         | 540    |       |         |        |             |                 |     | T 15                         | EPC.OM       |
| PTREX 7140<br>Deven 7340 | OWENS CORNING FIBGLS  |                 | 71-2710      | X 00         | 250.0         |        | 50    | 0/04    |        |             |                 |     |                              | F JHDX       |
|                          | THENC CONTRACT DECL   |                 | 1-01/2-1/    | ŝ            |               | 0.000  |       | 10/04   |        |             |                 |     |                              | E JHOX       |
| DITAT7 7040              | CHEMS CONTINUE LIDGES |                 | 70-1767-1    |              |               | 0001   |       | Z 2     | 2 666  | 555         |                 | -   |                              | DUHKXO       |
| CHART? 7940              | CHERC CORVING FIRE C  | 0750-           | 70-1767-10   |              |               |        |       | 2 207 0 |        | ***         |                 |     | n (<br>4 -                   | NUHK X       |
| DUARTZ 7940              | DUENS CORNING FIBGLS  | •0750           | 70-1767-11   |              | 4000-0        | .,     |       |         |        |             |                 | •   | 2:                           |              |
| OUARY2 7940              | DNEWS CORNING FIRGIS  | -0750           | 70-1767-12   | E D X        | 00005         |        |       | 10/04   |        |             |                 |     | ::                           |              |
| QUARTE 7940              | DHENS CORNING FIBGLS  |                 | 70-1767-2    | x og         | 62.0          | , 0001 | Š     |         | 4 000  | 300         |                 | •   | <br>                         |              |
| QUARTZ 7940              | CRENS CORNING FIBGLS  |                 | 70-1767-3    | 20X          | 100.0         |        |       | : 2     |        | 000         |                 |     | <br>                         |              |
| GUARTZ 7940              | OWENS CORNING FIBGLS  |                 | 70-1767-4    | XQS          | 165.0         | 1000   |       | : 2     |        | 000         |                 | •   | 1 M<br>4 <del>-</del><br>4 4 |              |
| OUMATZ 7940              | DWENS CORNING FIBGLS  |                 | 70-1767-5    | X09          | 500.0         | 1000   |       | Z       | N 666  | 666         |                 |     | 10                           | DHKX         |
| QUARTE 7940              | OWENS CORNING FIBGLS  |                 | 70-1767-6    | х<br>С       | 1000.0        | 1000   |       | : Z     | V 666  | 666         |                 |     | •~<br>•~                     |              |
| OUARTZ 7940              | DWENS CORNING FIBGLS  |                 | 70-1767-7    | 50 X         | 1500.0        | 1000   |       | z       | N 066  | 666         |                 |     |                              |              |
|                          |                       |                 |              |              |               |        |       |         |        |             |                 |     |                              |              |

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| MFGR S DESIGNATION      | MANUFACTURER            | SPEC.<br>THICK. | TEST RPT NO. | TES T<br>ENVR | TE ST<br>PRE SS | TEST IN<br>TEMP EN | IPT NO   | OF FL<br>ACT PO | ASH FI | RE 2ROF<br>1151 | LOSS | 4<br> | MATL<br>CUDE |
|-------------------------|-------------------------|-----------------|--------------|---------------|-----------------|--------------------|----------|-----------------|--------|-----------------|------|-------|--------------|
| 044TZ 7940              | OMENS CORNING FIBGLS    |                 | 10-1767-8    | X03           | 2000.0          | 1000               |          | 6¥              | N 66   | 66              |      | A 13  | DDHK         |
| 0144TZ 7940             | DWENS CORNING FIBGLS    | .0750           | 70-1767-9    | X09           | 4000.0          |                    | 00       | 10/             |        |                 |      | A 10  | DOHKX        |
| QUARTZ 7940             | OWENS CORNING FIBGLS    |                 | 70-1520      | ×09           | 1500.0          |                    | 8        | /04             |        |                 |      | A 10  | DOHK         |
| - BUARTZ 7940           | DWENS CORNING FIDGLS    |                 | 70-1920-1    | 60 X          | 1500.0          | LA.                | 00 00    | /04             |        |                 |      | 11 V  | DDHKX        |
| PUARTZ 7940             | DWENS CORNING FIBGLS    |                 | 70-1920-2    | Š             | 1500.0          | 1000               |          | 62<br>2         | N 66   | 66              |      | A 13  | COHK 3       |
| REDAR S1-500-03         | DARLING -R.E. CO. INC   |                 | 70-1648      | 60 X          | 5.0             | 1000               |          | ~               | 37 NG  | 99              |      | 0 13  | DVDPX        |
| REDAR SI-500-03         | DARLING R.E. CO. INC    |                 | 70-1648-1    | ×09           | 25.0            |                    |          | ~               | 5.6    | 2в              |      | 0 13  | CADPY        |
| #EDAR S1-500-33         | DAKLING.R.E. CO. INC    |                 | 70-1648-10   | 60 X          | 3000.0          |                    | 01.      | /02             |        |                 |      | 1 10  | CODDX        |
| REDAR 51-500-03         | DARLING -R.E. CO. INC   |                 | 70-1648-11   | ŝ             | 3500.0          |                    | 8        | 10/             |        |                 |      | A 10  | C 40AO       |
| HEBAR SI-500-03         | DARLING -R .E. COINC    | •               | 70-1648-12   | 60 X          | 4000.0          |                    | 8        | 10/             |        |                 |      | A 10  | DVDPX        |
| REDAR S1-500-03         | DARLING .R.E. COINC     |                 | 70-1648-13   | õ             | 4500.0          |                    | 02       | /03;            |        |                 |      | 1 10  | DVDPX        |
|                         | DARLING R.E. CO. INC    |                 | 70-1648-14   | ×09           | 5000.0          |                    | е<br>С   | 104             |        |                 |      | 1 10  | XdQ?.0       |
|                         | DARLING -R.E. CO. INC   |                 | 70-1648-15   | Š             | 5000.0          | 20                 | 00       | /04             |        |                 |      | A 11  | K 40 10      |
| REDAR S1-500-03         | DARLING.R.E. COINC      |                 | 70-1648-16   | GOX           | 2000.0          |                    | 8        | /04             |        |                 |      | A 10  | DVDPX        |
| REDAR S1-500-03         | DARLING -R.E. CO. INC   |                 | 70-1648-17   | ŝ             | 2500.0          |                    | 6        | /01             |        |                 |      | 1 10  | X0070        |
| REDAR S1-500-03         | DARLING.R.E. COINC      |                 | 70-1648-18   | 60X           | 3500.0          |                    | 5        | 101             |        |                 |      | T 10  | DVDPX        |
| REDAR S1-500-03         | DARLING .K.E. CO. INC   |                 | 70-1648-19   | ŝ             | 4000.0          |                    | 5        | /03             |        |                 |      | 10    | DVDPX        |
| . REDAR SI-50/-03       | DARLING R.E. CO. INC    |                 | 70-1648-2    | C0X           | 50.0            |                    |          | -               | 20     | 20              |      | 0 13  | X40V0        |
| #EDAR S1-5(-0-03        | DARLING .R.E. CO INC    |                 | 70-1648-20   | ŝ             | 4500.0          |                    | 01       | /02             |        |                 |      | 1 10  | 0100 0       |
| MEDAR SI-540-03         | DARLING -R.E. CO. INC   |                 | 70-16 -8-21  | 80X           | 5000.0          |                    | 40       | /04             |        |                 |      | 1 10  | DVDPX        |
| 25048 S1-500-00         | DARLING -R .E. CO. INC  |                 | 70-1648-22   | ž             | 200.0           | 20                 | 01 01    | /01             |        |                 |      | T 11  | DVDP         |
| THEBAR ST-SU0-03        | DARLING .R.E. CO. INC   |                 | 70-1648-23   | GOX           | 500,0           | 20                 | 010      | /01             |        |                 |      | 7 11  | X4QAQ        |
| REDAR SI-500-03         | DARLING R.E. CO. INC    |                 | 70-1648-24   | Š             | 1000.0          | 20                 | 00 01    | 10/             |        |                 |      | T 11  | CAQA0        |
| REAR S1-500-03          | AARTING -R.E. COINC     |                 | 70-1648-25   | COX<br>COX    | 1500.0          | 20                 | 010      | 10/             |        |                 |      | T 11  | DVDPX        |
| E0-02-12 MARK           | DARLING R.E. CO. INC    |                 | 70-148-3     | ŝ             | 50.0            |                    |          | 4               | 74 6   | 74              |      | 0 13  | X dQAQ       |
| REDAR S1-500-03         | DARLYNG-R.E. CO. INC    |                 | 70-1648-4    | 202           | 100.0           |                    |          | 4               | 72 4   | 72              |      | D 13  | DVDPX        |
| - REDAR SI-500-03       | DARLING R.E. CU. INC    |                 | 70-1648-5    | Š             | 500.0           |                    |          | 4               | 4] 4   | 41              |      | 0 13  | DVDPX        |
| <b>REDAR</b> S1-500-03  | DARLING -R.E. CO. INC   |                 | 70-1648-6    | X OS          | 1000.0          |                    |          | m               | 91     | 91              |      | 0 13  | DVDPX        |
| REDAR S1-500-03         | QARLING -R .E. COINC    |                 | 70-1648-7    | ž             | 1500.0          |                    |          | e               | 59     | 59              |      | 0 13  | CVUP X       |
| REDAR S1-500-03         | DARLING R.E. CO. INC    |                 | 70-1648-8    | ×09           | 2000.0          |                    |          | 4               | 17 4   | 17              |      | 0 13  | DVDPX        |
| - REDAR S1-500-03       | DARLING RUE. CO. INC    |                 | 70-1648-9    | Š             | 2500.0          |                    | 3        | /04             |        |                 |      | A 10  | DVDP         |
| MEDAR 51-503-00         | DARLING -R.E. CO. INC   |                 | 70-1647      | 60 X          | 5.0             |                    |          | ~               | 11     | 72              |      | 0 13  | DVDPX        |
| REMAR S1-503-00         | DARLING -R .E. CO. INC  | 1               | 1-1-21-01    | Š             | 25.0            |                    |          | <b>~</b>        | 5      | 40              |      | 0 13  | K 4040       |
| REDAR S1-503-00         | DARLING.R.E. COINC      | • 0750          | 70-1647-10   | X09           | 3500.0          |                    | 5        | 10/             |        |                 |      | 10    | X do X o     |
| #FDAR S1-503-00         | DARLING .R.E. CO. INC   | •0150           | 70-1647-11   | ŝ             | 4000-0          | 2                  | <b>*</b> | 104             |        |                 |      | 1 10  | 000          |
|                         | DARLING -R -E. CO. INC  | •0220           | 70-1647-12   | 20X           | 2000.0          | 20                 | 00       | /04             |        |                 |      | A 11  | K40A0        |
| 203-00 SI-203-00        | PERLING R.E. CO.INC     |                 | 70-1647-2    | Š             | 50.0            |                    |          | -0              | 57     | 57              |      | 0 13  |              |
|                         | DARLING.R.E. COINC      |                 | 70-1647-26   | <b>X</b> 09   | <b>6</b> •2     |                    |          | ~               | 21     | 59              |      | 0 13  | UVDPX        |
| C                       | DARLING R.E. CO. INC    |                 | 70-1647-27   | Š             | 16.5            |                    |          | -               | 35     | 44.             |      | 0 13  | DVDF         |
| 1 120-203-00            | DARLING+R+E+ CO++INC    |                 | 70-1647-3    | 20X           | 50.0            |                    |          | 4               | 81 4   | 81              |      | 0 13  | C40V0        |
| 1 11, REBAR S1-503-00   | DARLING .R.E. CO INC    |                 | 70-1647-4    | Š             | 100.0           |                    |          | ¥               | 1 - 4  | 47              |      | 0 13  | DVDP         |
| State 1 AEPAR S1-503-00 | DARLING -R - E. CO. INC |                 | 70-1647-5    | GOX           | 500.0           |                    |          | m               | 93     | 93              |      | 0 13  | 0V0PX        |
| REDAR 51-503-00         | DARLING+R.E. COINC      |                 | 70-1647-6    | ×09           | 1000.0          |                    |          | m               | 81     | 181             |      | 0 13  | 0 VDP)       |
| - REDAR SI-503-00       | DARLING.R.E. COINC      |                 | 70-1647-7    | 60X           | 1500.0          |                    |          | m               | 82     | R2              |      | D 13  | K40A0        |

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| MFGR S DESIGNATION | MANUFACTURER             | SPEC. | TEST RPT NO. | TEST<br>ENVR | TEST<br>PRESS | TEST<br>TEMP | I MP T<br>ENER | NO OF<br>REACT | FL ASH<br>PO INT | т 1 к<br>Р 1 к п | DIST LOS | ss I     | ۰<br>۲                | 200      |
|--------------------|--------------------------|-------|--------------|--------------|---------------|--------------|----------------|----------------|------------------|------------------|----------|----------|-----------------------|----------|
| REDAR S1-503-00    | DARLING.R.E. CO.INC      |       | 70-1647-8    | ×09          | 2000.0        |              |                |                | 353              | 353              |          | ۵<br>۵   | 13 0                  | VDPXX    |
| REDAR 51-503-00    | DARLING.R.E. CO. INC     | .0750 | 70-1647-9    | COX          | 3000.0        |              |                | 00/04          |                  |                  |          | 4        | 10                    | VDPXX    |
| REDAR 51-528-00    | DARLING -R -E - CO - INC |       | 70-1438      | ŝ            | 1500.0        |              |                | 10/10          |                  |                  |          | -        | 10                    | KOPXX    |
| #30AR S1-528-00    | DARLING-R.E. CO.INC      |       | 70-1938      | X OS         | 1500.0        |              | 50             | 40/00          |                  |                  |          | <        | II E                  | KDPXX    |
| KEDAR SI-528-00    | . DARLING .R.E. CD. INC  |       | 70-1938-1    | S<br>S       | 100.0         |              |                |                | 555              | 555              |          | ٥        | 13                    | KDPXX    |
| REDAR 51-528-00    | DARLING .R.E. CO. INC    |       | 70-1938-10   | ×09          | 1000.0        | 284          |                |                |                  |                  |          | 0        | 15 E                  | XXAQX    |
| REDAR 51-528-00    | DARLING R.E. CO MC       |       | 70-1938-11   | ХQ3          | 1500.0        | 232          |                |                |                  |                  |          | 0        | 15 8                  | KDPXX    |
| REDAR S1-528-00    | DARLING R.E. CO. INC     |       | 70-1938-12   | GOX          | 1500.0        |              |                |                | 287              | 287              |          |          |                       | KUDXX    |
| REDAR SI-528-00    | DARLING.R.E. CG. INC     |       | 70-1938-2    | X09          | 500.0         |              |                |                | 30.2             | 302              |          |          |                       | KDDXX    |
| REDAR 51-528-00    | DARLING.R.E. CO. INC     |       | 70-1938-3    | 60X          | 1000-0        |              |                |                | 250              | 250              |          |          | ) (L<br>) (L<br>) (L) | KD5 X2   |
| REDAR SI-523-00    | DARLING .R.E. CO. INC    |       | 70-1938-4    | Ň            | 50-0          |              |                |                | 728              | 778              |          |          | ,                     | AX dury  |
| REDAR 51-528-00    | DARLING.R.E. CO. INC     |       | 70-1938-5    | 60X          | 25.0          |              |                |                | 768              | 168              |          | ) C      |                       | X DO X X |
| ACOAR SI-528-00    | DARLING .R. E. CD INC    |       | 70-1938-6    | ×09          | 6.2           | 1000         |                |                | 769              | 666N             |          |          |                       | KDFXX    |
| REDAR 51-528-00    | DARLING.R.F. CDINC       |       | 70-1938-7    | CDX<br>CDX   | 16.5          |              |                |                | 787              | 787              |          |          |                       | *****    |
| REDAR S1-528-00    | DARLING -R .L CO INC     |       | 70-1938-8    | ŝ            | 1500.0        |              |                |                | 232              | 232              |          |          |                       | XXADX    |
| #S-025 SHIM        |                          |       | SP-6919      | COX<br>COX   | 5.0           | 1000         |                |                | 666N             | 000N             |          | <u>م</u> |                       | HMAXX    |
| #S-025 SHIM        |                          |       | SP-6919-1    | Ň            | 25.0          | 1000         |                |                | 666N             | 0000             |          | 8        |                       | XXVMM    |
| #S-025 SHIM        |                          |       | SP-6919-10   | K09          | 500.0         |              | 007            | 10/00          |                  |                  |          | 4        |                       | N A X X  |
| RS-025 SHIM        |                          |       | SP-6915-11   | õ            | 1000.0        |              | 200            | 10/00          |                  |                  |          |          | :=                    | HMAXX    |
| RS-025 SHIM        |                          |       | SP-6919-12   | 60 X         | 1500.0        |              | 200            | 00/01          |                  |                  |          |          |                       | XXOMH    |
| RS-025 SHIR        |                          |       | SP-6919-13   | Š            | 2000.0        |              | 200            | 00/04          |                  |                  |          | <        |                       | HMAXX    |
| RS-025 SHIM        | •                        |       | SP-6919-14   | 60X          | 50.0          | 0001         |                |                | 666N             | 000 N            |          | α        | 13 61                 | XXAMH    |
| #S-025 SHIM        |                          |       | SP-6919-15   | ŝ            | 100.0         | 1000         |                |                | 666N             | 606N             |          | œ        | 13 C                  | XXXXH    |
| NINS SSOL          |                          |       | SP-6919-2    | COX<br>COX   | 50.0          | 1000         |                |                | 868              | 666N             |          | œ        | 13 C                  | XXYMH    |
| MS-025 SHIM        |                          |       | SP-6919-3    | Š            | 62.0          | 1000         |                |                | 666N             | 666N             |          | æ        | 13 C                  | XXXMH    |
| #S-025 SHIM        |                          |       | SP-6919-4    | XOU<br>COX   | 165.0         | 1000         |                |                | 666N             | 666N             |          | œ        | 13 C                  | XXXMH    |
| RS-025 SHIM        |                          |       | SP-6919-5    | Š            | 0.00.6        | 1000         |                |                | 666N             | 666N             |          | ď        | 13 C                  | XXTHI    |
| R5-025 SH1M        |                          |       | SP-6919-6    | 60 X         | 2500.0        |              |                | 10/00          |                  |                  |          | ∢        | 10 C                  | XXYHH    |
| RS-025 SHIM        |                          | •     | SP-6919-7    | õ            | 3000.0        |              |                | 10/00          |                  |                  |          | 4        | 10<br>C               | HMAXX    |
|                    |                          |       | SP-6919-8    | SO3          | 3500.0        |              |                | 00/00          |                  |                  |          | 4        | 20<br>70              | HM AXX   |
|                    |                          |       | 5P-6916-9    | Š            | 4000-0        |              |                | 10/00          |                  |                  |          | 4        | 10                    | XXARX    |
| KIT-LUO MEU        | 6 - 51 LLONE PRUDUC IS   |       | 11-2358      | 203          | 500.0         |              | 50             | 00/04          |                  |                  |          | 4        | 1 I A                 | EO&XX    |
| RIV-106 REU        | Get SILICONE PRODUCTS    |       | 71-2368-1    | × 09         | 500.0         |              |                | 00/04          | 1                |                  |          | 4        | 10                    | EDRXX    |
| KIN-IOC KED        | PIEL SILICUTE PRUDUIS    |       | 2-1062-11    | 209          | 100.0         |              |                |                | 5 60             | 560              |          | C        | 13 A                  | ED AXX   |
| RTV-ZI             | Goe SILICONE PRODUCTS    |       | 71-2446      | A-50         | 820.0         | 524          |                |                |                  |                  |          | *        | 15 0                  | COP65    |
| 12-411             | 6-E. SILICONE PRODUCTS   |       | 71-2446-1    | A-50         | 764.0         | 501          |                |                |                  |                  |          | -        | 15 D                  | DDPGS    |
| 81V-30             | G-E- SILICONE PRODUCTS   |       | 71-2442      | A-50         | 423.0         | 419          |                |                |                  |                  |          | -        | 15 0                  | COPCS    |
| RTV-30             | G-E- SILICONE PRODUCTS   |       | 71-2442-1    | A-50         | 457.0         | 431          |                |                |                  |                  |          | *-       | 15 0                  | DDFGS    |
| ATV-60             | G.E. SILICONE PREDUCTS   |       | 71-2443      | A-50         | 397.0         | 415          |                |                |                  |                  |          | -        | 15 0                  | DOPGS    |
| 05-ALW             | G.E. SILICONE PRODUCTS   |       | 71-2443-1    | A-50         | 417.0         | 416          |                |                |                  |                  |          | <b>h</b> | 15 0                  | JOPGS    |
| RTW-00             | G.E. SILICONE PRODUCTS   |       | 71-5000      | õ            | 5000.0        |              | 50             | 00/04          |                  |                  |          | ۹        | 11                    | XXdOC    |
| RTV-90             | G.E. SILICONE PRODUCTS   |       | 71-5000-1    | XOS          | 500.0         |              |                | 40/00          |                  |                  |          | •        | 10 0                  | XXdQQ    |
| 06-A13             | G.E. SILICONE PRODUCTS   |       | 71-5000-10   | 60X          | 1500.0        |              |                | 00/04          |                  |                  |          | ۹        | 10                    | XXdOO    |
| RTV90              | G.E. SILICONE PRODUCTS   |       | 71-5000-11   | GOX          | 2000.0        |              |                | 10/10          |                  |                  |          | -        | 10 01                 | DC P X X |

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XX 4000 XX 4000 XX 4000 XX 4000 XX 4000 XX 4000 XX 40000 XX 40000 000PXX 000PXX 000PXX 000PXX DODPXX MATL CODE 4 PAGE 0 <u>د</u> --L USS PR()P FIRF 5 989 965 669N 179 179 802 788 761 N999 666N 686 FLASH POINT 802 788 761 N999 N999 752 650 N999 739 989 72 NAU NO DF REACT 00/01 01/02 00/01 02/04 01/01 00/01 00/01 00/01 00/01 00/01 10/00 00/01 00/04 00/04 00/04 01/02 01/01 01/02 01/01 01/01 01/01 01/03 01/03 01/04 01/04 01/04 01/03 I MP T ENER 2000 200 2002200 1000 TEST TEMP 1000 1000 50.0 62.0 165.0 3000.0 2500.0 2500.0 2500.0 2500.0 3000.0 3500.0 1000.0 1500.0 1500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500.0 500 TE ST PRE SS TEST ENVR . 00 71-5000-15 71-5000-15 71-5000-15 71-5000-15 71-5000-2 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 71-5000-5 70-1716-12 70-1716-12 70-1716-12 70-1716-12 70-1716-12 70-1716-5 70-1716-6 70-1716-6 70-1716-6 70-1716-12 70-1716-12 70-1716-12 70-1716-12 70-1716-12 70-1716-12 70-1716-12 70-1716-12 70-1716-7 70-1716-8 70-1716-9 76-1717-1 770-1717-10 70-1717-10 70-1717-12 70-1717-15 70-1717-15 70-1717-15 70-1717-15 70-1717-3 70-1717-4 TEST RPT •0300 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 •0750 0300 0350 0750 0750 SPEC. THICK. PRODUCTS Gef Silicone SILICONE SILICONE SILICONE MANUFAC TURER COR<sup>®</sup> 5089 8 ğ ŝ ă NOX10 DIXON DIXON NOX10 NDX EQ DIXON DIXON NOXIO **NOX10** NOX 10 NOX IO MOX10 NOX10 NOX16 Ş õ E X NOX 1 O NOXI NOX10 HOX10 **UXIO** DX10 MFER S DESIGNATION 81V-90 81V-90 81V-90 £ K74-90 RTV-90 174-90 REACH STREET 888888888

31 MATERIAL TEST DATA BY MANUFACTURER S DESIGNATION AS DF

| NFGR S DESIGNETION | MANUFACTURER                                   | SPEC.  | TEST RPT NO. | TES T<br>ENVR                           | TEST     | TEST 1<br>TEMP E | NPT NER H | VU OF F      | LASH F<br>NINT P | 185 PP1.0<br>T NIST | WT<br>LUSS | 4 H<br>1 H  | MATL<br>CUDE   |            |
|--------------------|------------------------------------------------|--------|--------------|-----------------------------------------|----------|------------------|-----------|--------------|------------------|---------------------|------------|-------------|----------------|------------|
|                    | DIXON CORP                                     | .6750  | 70-1717-6    | X03                                     | 3500.0   |                  | Ũ         | 10/00        |                  |                     |            | A 1(        | UKCNA          | ۹D         |
|                    | DITON CORP                                     | 0420   | 10-1111-07   |                                         | 4000.0   |                  | 0         | 10/00        |                  |                     |            | A 10        | DKCNA          | 0 A        |
|                    | DIXON CORP                                     | •0150  | 70-1717-9    | Š                                       | 5000.0   |                  |           | 10/04        |                  |                     |            | 4 4<br>7 0  | DKCNA          | A C A      |
| A NO.374           | DIXON CORP                                     |        | 2761-0T      | A-50                                    | 750.0    | 164              |           |              |                  |                     |            |             | DKCNA          | AD         |
| FULCH A            | DIXON CORP                                     |        | /0-1975-1    | A-50                                    | 686.0    | 478              |           |              |                  |                     |            | 1 12        | DKCNA          | AD         |
| RULOR A            | DIXON CORP                                     |        | 70-1975-2    | A-50                                    | 750.0    | 164              |           |              |                  |                     |            | 1 19        | DKCNA          | AD         |
|                    | DIXON COAP                                     |        | 71-2242      | X09                                     | 1500.0   |                  | 50        | 0/04         |                  |                     |            | A LI        | DKCNA          | AD         |
|                    |                                                |        | 1-2422-11    | ŝ                                       | 1000 0   |                  | 2         | 20.110       |                  | c<br>r<br>f         |            |             |                |            |
|                    | DITTN COR                                      |        | 71-2276      | 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5 C 5 C | 10001    | 513              |           |              | 201              | 551                 |            |             |                |            |
| PL OF A            | DIXON COR                                      |        | 71-2276-1    | A-50                                    | 781.0    | 510              |           |              | :                |                     |            |             |                | K 7        |
| RULON A            | DIXON CORP                                     | •      | 71-2526      | Š                                       | 1500.0   | 1                | 50 0      | 20/04        | •                |                     |            | A 11        | DKCNI          | AC         |
| RULON 1            | DIXON COVE                                     |        | 71-2526-1    | GOX                                     | 1500.0   |                  | Û         | 01/02        |                  |                     |            | 1 10        | DKCNA          | <b>A</b> D |
|                    | CIXON CIRP                                     |        | 71-2526-2    | COX<br>COX                              | 1000.0   |                  |           |              | 635              | 635                 |            | 1<br>0      | DKCN1          | <b>A</b> D |
| R751-16 FLUCKGLAS  | DODGE INDUSTRIES.INC.                          |        | 71-2383      | 60 X                                    | 500.0    |                  | 50 0      | <b>*0/0</b>  |                  |                     |            | A LI        | BFCNO          | 60         |
| RTSI-16 FLUORGLAS  | DODGE INDUS TRIES.INC.                         |        | 71-2383-1    | X<br>CO                                 | 500.0    |                  | Ŭ         | <b>70/04</b> |                  |                     |            | A 10        | BFCNO          | 60         |
| RTSI-18 FLUORGLAS  | DODGE INDUSTRIES.INC.                          |        | 71-2383-2    | N<br>C<br>C                             | 100.0    | 0001             |           | ∡            | N 6661           | 600                 |            | <b>EI 7</b> | BFCNO          | 60         |
|                    | PARKER SEAL/LOS ANGLS                          |        | 10-46        | 682                                     | 200.0    |                  | 10        | 40/00        |                  |                     |            | A<br>A      | CHOP)          | ××         |
|                    | PARKER SEAL/LOS ANGLS                          |        | 10-46-1      | GNZ                                     | 1000.0   |                  | 4         | 0/04         |                  |                     |            | 2  <br>2    | CHDP           | ×          |
|                    | PARKER SEAL/LUS ANGLS                          |        | 10-1570      | Š                                       | \$0C0.0  |                  |           | 10/10        |                  |                     |            |             | CHOP           | ××         |
|                    | PARKER SEAL/LES ANGLS                          |        | 70-1570-1    | × 00                                    | 4000.0   |                  | 20        | 0/04         |                  |                     |            | 4           | CHDPA          | ×          |
|                    | PARKEN SEAL/LIIS ANGLS                         |        | 01-0/61-0/   | ŝ                                       | 1000.0   |                  |           |              | 1.14             | 424                 |            |             | CHDD           | ××         |
|                    | PARKER SEAL/LUS ANGLS                          |        | 70-15-0-11   | × 00                                    | 1500.0   |                  |           |              | 400              | 400                 |            | 0           | CHDPX          | ×          |
|                    | PARKEN SEAL/LUS ANGLS                          |        | 1-01 -12     | Š                                       | 2000.0   |                  |           |              | 394              | 394                 |            | 0           | CHDD           | ××         |
|                    | PARKER SEAL/LOS ANGLS                          |        | 70-1570-13   | X<br>Q<br>O                             | 3000.0   |                  |           |              | 419              | 419                 |            | 5           | CHDPX          | ××         |
|                    | PARKER SEAL/LOS ANGLS                          |        | 70-1570-13   | X 20                                    | 1000.0   | 428              |           |              |                  |                     |            | 51 5        | CHOP           | ××         |
|                    | PARKER SEAL/LUS ANGLS                          |        | 10-1210-14   | 50X                                     | 3000.0   | 388              |           |              |                  |                     |            | ٦<br>15     | CHOPX          | ××         |
|                    | PARKER SEAL/LOS ANGLS                          |        | 70-1570-15   | X OS                                    | 25.0     |                  |           |              | 106              | 827                 |            | 5           | CHOP           | ××         |
|                    | PARKER SEAL/LOS ANGLS<br>DARKED SEAL/LOS ANGLS |        | 70-1570-16   | × 09                                    | 3000.0   |                  | (<br>)    |              | 419              | 419                 |            | ۲.<br>۱     | CHOP)          | X          |
|                    | PARTER SEAL/LUS MARLS                          |        | 70-1570-2    |                                         | 15000    |                  |           |              |                  |                     |            | 4 1         |                | < >        |
| S40-2              | PARKER SEAL / I'N ANGI S                       |        | 70-1570-4    |                                         |          |                  |           | 10/04        |                  |                     |            |             |                |            |
|                    | PARKER SEAL/LOS ANGLS                          |        | 70-1570-5    | ŝ                                       | 50.0     |                  | ,         |              | 766              | 7 <b>6</b> 6        |            | 10          |                | ~ >        |
| -5-604-7           | PARKER SEAL/LDS ANGLS                          |        | 70-1570-0    | 20X                                     | 50-0     |                  |           |              | 542              | 642                 |            |             | K d C H J      | XX         |
| 5-604-7            | PARKER SEAL/LOS ANGLS                          |        | 70-1570-7    | COX                                     | 100.0    |                  |           |              | 471              | 471                 |            | EI O        | CHUPS          | XX         |
|                    | PARKER SEAL/LOS ANGLS                          |        | 70-1570-A    | ×09                                     | 500.0    |                  |           |              | 389              | 384                 |            | D 13        | CHDP           | ××         |
| 5-694-7            | PARKFR SEAL/LOS ANGLS                          |        | 70-1570-9    | ×09                                     | 1000.0   |                  |           |              | 404              | 404                 |            | 0 13        | CHDPX<br>CHDPX | XX         |
| 5-613-6            | PARKER SEAL/LOS ANGLS                          | .075.0 | 71-2409      | ŝ                                       | 250.0    |                  | U         | 40/00        |                  |                     |            | A 10        | CHDPX          | ××         |
| S-613-6            | PARKER SEAL/LOS ANGLS                          |        | 71-2408-1    | COX<br>COX                              | . 75.0 . |                  |           |              | 564              | 564                 |            | 0 13        | CHDPX          | ××         |
| 5-614-80           | PARKER SEAL/LOS ANGLS                          | •0750  | 10-83        | ¥03                                     | 2000+0   |                  | Ű         | 20/04        |                  |                     |            | A 10        | CHCKY          | ××         |
| S-614-R0           | PARKER SEAL/LOS ANGLS                          | •0150  | 10-83-1      | X 00                                    | 2500.0   |                  | 2         | 11/04        |                  |                     |            | A 10        | CHCKX          | ××         |
| 5-414-80           | PARKER SEAL/LOS ANGLS                          | •0750  | 10-83-2      | X<br>C<br>C                             | 3500.0   |                  |           | 13/04        |                  |                     |            | 0 - V       | CHCEN          | ××         |
| 5-514-80           | PARKER SEAL/LOS ANGLS                          | •0750  | 10-83-3      | 60,                                     | 1500.0   | 51               | 00        | 10/07        |                  |                     |            | A 11        | CHCKX          | ×          |

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| MECR 5 DESIGNATION                   | M ANULF AC TURER       | SPFC.   | TEST RPT NO. | 1551        | TLCT        | TFCT | T d M I | 20 UN | P. ∆ <sup>c</sup> u | <b>5 1</b> 8 1;  P | 5. La  | -1<br>2. |               | M    | Ē              |
|--------------------------------------|------------------------|---------|--------------|-------------|-------------|------|---------|-------|---------------------|--------------------|--------|----------|---------------|------|----------------|
|                                      |                        | THICK.  |              | ENVR        | PRESS       | TFMP | ENFR    | REACT | INT DO              | D 14               | ין ואו | 5.5      | T             | 00   | ų į            |
| S-614-80                             | PARKFH SEAL/LUS ANGLS  | • (1750 | 10-83-4      | ×09         | 2000.0      |      | 200     | 03/04 |                     |                    |        |          | -<br>-<br>-   | ŭ    | CKXX           |
| S-614-80                             | PARKER SEAL/LOS ANGLS  |         | 10-83-5      | 60 X        | 6. <i>2</i> |      |         |       | 782                 | HЪl                |        |          | 0 13          | ŭ    | CKXX<br>C      |
| 5-614-80                             | PARKER SEAL/LOS ANGLS  |         | 10-83-6      | Š           | 16.5        |      |         |       | 824                 | 886                |        |          | 0 15          | Ĕ    | XXXC           |
| SAYEREISEN NO. 8                     | CONTROL PRODUCTS.INC.  |         | 71-2411      | 60 X        | 250.0       |      |         | 00/04 |                     |                    |        |          | A 1C          | J.   | XXX            |
| SAVEREISEN NO. B                     | CONTROL PRODUCTS.INC.  |         | 71-2411-1    | ŝ           | 75.0        | 1000 |         |       | 666N                | 000N               |        |          | A 15          | F.JC | XXXC           |
| SCOTCH 393 TAPE                      | 3M CO. ST. PAUL        |         | 71-2398      | COX<br>COX  | 75.0        | 600  |         |       | N600                | N600               |        |          | 5 13          | DZF  | : SG T         |
| SCUTCHCAL 3930                       | 3M CO. ST. PAUL        |         | 70-2067      | X<br>C<br>O | 6.2         | 600  |         |       | 666N                | 606V               |        |          |               | AKI  | AKXX           |
| SCOTCHCAS1 248                       | 3M CD. ST. PAUL        |         | 71-2593      | 1-50        | 732.0       | 692  |         |       |                     |                    |        |          | T 15          | AXE  | 36 X X         |
| SCOTCHCAST 246                       | 3M CO. ST. PAUL        |         | 71-2593-1    | A-50        | 750.0       | 511  |         |       |                     |                    |        |          | -<br>-        | AK   | BG X X         |
| SCOTCHCAST 282                       | 3M CO. ST. PAUL        |         | 71-2562      | HMH         | 578.0       | 465  |         |       |                     |                    |        |          | 1.15          | BAE  | XX DE          |
| SCOTCHCAST 282                       | 3M CD. ST. PAUL        |         | 71-2562-1    | INT         | 783.0       | 503  |         |       |                     |                    |        |          | 1             | BAB  | 3G X X         |
| SE-550                               | G.E. SILICONE PRODUCTS |         | 67-0243      | 60 X        | 1555.0      |      |         |       | 461                 | 461                |        |          | <u>ت</u><br>0 | Da   | XXOC           |
| SE-565/VARDY CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775      | Š           | 25.0        |      |         |       | 854                 | 854                |        |          | 1<br>2<br>2   | ğ    | XXdr           |
| SE-565/VAROX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775      | Х09         | 1500.0      |      | 50      | 00/04 |                     |                    |        |          | A 11          | 000  | XXdC           |
| SE-565/VAROX CAT                     | 6-E. SILICONE PRODUCTS |         | 70-1775      | Š           | 1500.0      |      |         | 01/02 |                     |                    |        |          | 1 10          | 00   | XXdC           |
| SE-565/VARDX CAT                     | 6.E. SILICONE PRODUCTS |         | 1-5111-01    | GOX         | 50.0        |      |         |       | 64.6                | 533                |        |          | 010           | 00   | XXdC           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-10   | š           | 2000-0      |      |         |       | 410                 | 410                |        |          | 010           | õ    | XXdC           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS | .0750   | 70-1775-11   | X09         | 1500.0      |      | 500     | 00/04 |                     |                    |        |          | A LL          | 000  | <b>7 X 4 C</b> |
| SE-565/VAROX CAT                     | G.E. SILICONE PRODUCTS | • 0750  | 70-1775-12   | ŝ           | 2000.0      |      | 200     | 01/03 |                     |                    |        |          | T LI          | ğ    | XXdC           |
| SE-565/VAROX CAT                     | 6.6. SILICONE PRODUCTS | . 0750  | 70-1775-13   | COX<br>SOX  | 2500.0      |      | 00      | 01/03 |                     |                    |        |          | TL            | 00   | XY4C           |
| SE-565/VARUX CAT                     | 6.E. SILICONE PRODUCTS | .0750   | 70-1775-14   | ŝ           | 3000.0      |      | 200     | 10/10 |                     |                    |        |          | 111           | ğ    | DPXX           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS | •0750   | 70-1775-15   | COX<br>COX  | 3500.0      |      | 200     | 10/10 |                     |                    |        |          | TLL           | 00   | XXdO           |
| SE-565/VAROX CAT                     | G.E. SILICONE PRODUCTS | •0750   | 70-1775-16   | ×09         | 4000.0      |      | 200     | 04/04 |                     |                    |        |          | TIL           | ő    | XXdO           |
| SE-S65/VARDX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-17   | 205         | 1500.0      |      |         | 00/04 |                     |                    |        |          | A 10          | ö    | XXdC           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS |         | 81-5-11-0L   | X09         | 2000.0      |      |         | 01/03 |                     |                    |        |          | T 10          | ğ    | XXdC           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-19   | 60 X        | 2500.0      |      |         | 03/04 |                     |                    |        |          | T 10          | ğ    | <b>PXX</b>     |
| SE-565/VAROX CAT                     | G.E. SILICOME PRODUCTS |         | 70-1775-2    | S0X         | 50.0        |      |         |       | 770                 | 011                |        |          | 0 13          | g    | XXdC           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-20   | XC.9        | 3000.0      |      |         | 04/04 |                     |                    |        |          | T 10          | 00   | XXdC           |
| SE-565/VAROX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-21   | š           | 5000.0      |      | 50      | 00/04 |                     |                    |        |          | A 11          | ğ    | XXdC           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-22   | CCX<br>CCX  | 3000.0      |      |         | 10/10 |                     |                    |        |          | T 10          | ğ    | XXdC           |
| SE-505/VAROX CAT                     | 6.E. SILICONE PRODUCTS |         | 70-1775-23   | ŝ           | 2000.0      |      |         | 01/01 |                     |                    |        |          | 1 10          | ğ    | XXdC           |
| SE-565/VAROX CAT                     | 6-E- SILICONE PRODUCTS |         | 70-1775-24   | X 00        | 1000.0      |      |         | 10/10 |                     |                    |        |          | 1 10          | ğ    | XXdO           |
| BE-303/VARUX LAI<br>Kelete/variv fat | G-E- SILICUME PKUUULS  |         | C2-C111-D1   | ŝ           | 0.000       |      |         | 00/00 | 216                 |                    |        |          |               | Š    | ***            |
| SCTOON VARUA CAL                     |                        |         |              |             | 0.0002      |      |         |       | 110                 | 110                |        |          | 67 D          |      |                |
| SE-565/VARUX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-3    | Š           | 62.0        | 1000 |         |       | 769                 | 666N               |        |          | 013           |      | XXAC           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-4    | × DS        | 100.0       |      |         |       | 249                 | 549                |        |          | 0 13          | ŏ    | XXdC           |
| SE-565/VAROX CAT                     | G.E. SILICONE PRUDUCTS |         | 70-1775-5    | X<br>OS     | 165.0       |      |         |       | A19                 | A19                |        |          | 0             | ğ    | XXAC           |
| SE-565/VARDX CAT                     | 6+E. SILICONE PRUDUCTS |         | 70-1775-6    | X CC        | 900.0       |      |         |       | 366                 | 386                |        |          | 0             | ğ    | XXdO           |
| SE-565/VARDX CAT                     | S.E. SILICON: PRODUCTS |         | 70-1775-7    | Š           | 0.006       |      |         |       | 428                 | 428                |        |          | 5             | ğ    | DFXX           |
| SE-565/VAROX CAT                     | G.E. STLICTNE PRODUCTS |         | 70-1775-8    | ŝ           | 1000.0      |      |         |       | 413                 | 413                |        |          | 0             | ŏ    | XXdO           |
| SE-565/VARDX CAT                     | G.E. SILICONE PRODUCTS |         | 70-1775-9    | Š           | 1500.0      |      |         |       | 379                 | 379                |        |          | 0 13          | ğ    | XXdO           |
| SE-565/VEROX CAT                     | 6.E. SILICONE PRODUCTS |         | 70-1775-27   | COX<br>COX  | 950.0       |      |         |       | 376                 | 376                |        |          | <b>с</b> г    | 00   | XXdQ           |
| SHATHK SLEEVE 221-1/16               | ROYAL INDUSTRIFS INC   |         | 71-2655      | A-50        | 797.0       | 516  |         |       |                     |                    |        |          | 1 15          | Ŧ.   | C E X X        |
| SIL CRYSTAL STRAIN GAGE              | DVNASCIF"CES           |         | 70-2134      | 60 X        | 2000.0      |      |         | 00/04 |                     |                    |        |          | A 10          | ŭ    | 3148           |

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| MFGR S DESIGNATION PANUFACTURER                                                                    | SPEC.  | TEST RPT NO. | TEST       | TEST   | TEST | TPT   | NO OF | FLASH                                                                                            | FIRE | LW QUA   | <u>م</u>      | -           | MATL          |
|----------------------------------------------------------------------------------------------------|--------|--------------|------------|--------|------|-------|-------|--------------------------------------------------------------------------------------------------|------|----------|---------------|-------------|---------------|
|                                                                                                    | THICK. |              | ENVR       | PRESS  | TEMP | - XUX | PEACT | POINT                                                                                            | ΡŢ   | DIST LOS | ss<br>1       | jan.        | CODE          |
| SIL CAYSTAL STRAIN GAGE DYNASCJENCES                                                               |        | 70-2134-1    | Š          | 2500.0 |      | 20    | 00/04 |                                                                                                  |      |          | 4             | 11          | FIGIXX        |
| SIL CRYSTAL STRAIN GAGE DYNASCIENCES                                                               |        | 70-2134-2    | X09        | 1400.0 | 1000 |       |       | 666N                                                                                             | 066N |          | ۹             | 5           | F1G1XX        |
| SIL DIDX INSUL SP 950-46RDSEMONT ENG. CORP                                                         |        | 70-1986      | õ          | 1500.0 |      | -     | 00/04 |                                                                                                  |      |          | A             | 10          | FUCKXX        |
| SIL DIDY INSUL SP 950-46ROSEMONT ENG. CORP                                                         |        | 70-1986-1    | 80X        | 500.0  |      | 50    | 10/10 |                                                                                                  |      |          | -             | 11          | F JCKXX       |
| SIL DIDX INSUL SP 950-46205EMONT ENG. COR                                                          |        | 70-1986-2    | Š          | 1500.0 | 1000 |       |       | 666N                                                                                             | 000N |          | ~             | 13          | F JCKXX       |
| SIL DIDX INSUL SP 950-46RD5EMONT ENG. CORP                                                         |        | 70-1986-3    | Š          | 1500.0 |      | ŝ     | 10/10 |                                                                                                  |      |          | T             | Ξ           | FJCKXX        |
| SIL UJOX IMSUL SP 950-46RCSEMONT ENG. CORP                                                         |        | 70-1986-4    | Š          | 5000.0 |      | 50    | 10/04 |                                                                                                  |      |          | ◄             | П           | F JCKYX       |
| SEL DIUX INSUL SP 950-46ROSEMONT ENG. CORP                                                         |        | 70-1986-5    | 60X        | 5000.0 |      | Ū     | 00/00 |                                                                                                  |      |          | 4             | 9           | F JCKXX       |
| SIL ULASS LAW MIL-P-997 CADILLAC PROCESS CO.                                                       | -0750  | 70-2210      | ŝ          | 1500.0 |      | -     | 01/00 |                                                                                                  |      |          | -             | 2           | <b>CRCKXX</b> |
| SIL GLASS LAM HIL-P-997 CADILLAC PROCESS CO.                                                       |        | 70-2210-1    | X 00       | 1000.0 |      | ļ     |       | 614                                                                                              | 614  |          | C             | 1<br>1<br>1 | CRCKXX        |
| SIL LUMPS 34"130 LUI O'UMAINESUN LULEMAN 4 BELL<br>Sti Jimos sy-isn ent ajamatusean foichan a belj |        | 70-2240      | ŝ          | 1500.0 |      | 202   | 10/04 |                                                                                                  |      |          | ◀ ·           | 2           | DUCK XX       |
| SI IIMDC CY-ISA INT ATMATHEOUN CHERMAN FOCL                                                        |        | 1-342-01     | 6 U X      | 0.0000 |      | •     | 40/00 |                                                                                                  |      |          | ব।            | 2           | UDCXXX        |
| STE FORTS STATIO FUT STORATHEOM CULETAN T DELL<br>STE fludge evised int stabatheom forenam i driv  |        | 7-0477-01    | A-70       |        | 202  |       |       |                                                                                                  |      |          | -             | 2           | DDCKXX        |
| SIL LUMPS SATIOU LUI OTUMAINESUN CULEMAN + BELL<br>Sti inmbe evlika int etamatueenu paieman - deu  |        | 70-2240-3    | A-50       | 835.0  | 528  |       |       |                                                                                                  |      |          | •             | 5           | NDCKXX        |
| CT LIMBE EVILS IN LU ULUMINESUN ULEMAN FUEL                                                        |        |              |            |        | 700  |       |       |                                                                                                  |      |          |               | 2           | DCKXX         |
| 216 LUMES 34-120 LUI DIVIAIHESUN LULERAN + BERL<br>216 Dim Dive Dia Directorate for                |        | 70-2240-5    | H H H      | 756.0  | 503  |       |       |                                                                                                  |      |          | -             | 15          | DCKXX         |
| SIL NUP NU/UN YIO KUDDERUNALI UUNF                                                                 |        | 11-2003      |            | ZHD.0  | 370  |       |       |                                                                                                  |      |          | -             | 2           | XXdOdO        |
| SIL RUB RU/UL YIG RUBBERCRAFT CORP<br>CIP DIM RUEV-DIATORS HIMMI TOW STANDIOC                      |        | 71-2563-1    | A-50       | 293.0  | 370  |       |       |                                                                                                  |      |          | *             | 15          | XXdQd()       |
| SIL NUC SVSK-BIS/0-3 TANILIAN STANDAND                                                             |        | 11-22.64     | ŝ          | 2000.0 |      | -     | 10/04 |                                                                                                  |      |          | •             | 2           | XX40AO        |
| DIL RUB DYSK-51370-3 MAMILION DIANDARD                                                             |        | 71-2264-1    | Š          | 1500.0 |      |       |       | 564                                                                                              | 564  |          | ۵             | 13          | OVDPXX        |
|                                                                                                    |        | 71-2512      | A-50       | 783.0  | 503  |       |       |                                                                                                  |      |          | -             | 5           | 200PPH2       |
| SILASIJU S-55/0 KIY GAU                                                                            |        | 71-2512-1    | A-50       | 807.0  | 506  |       |       |                                                                                                  |      |          | -             | 15          | SH4000        |
| SILASIEC STOS/CHAIY UNM CUMUING CURP<br>FREETE FLEED STL NOU CUMUING CURP                          |        | 71-2489      | A-50       | 765.0  | 201  |       |       |                                                                                                  |      |          | -             | 15          | <b>DVDPXX</b> |
| STLASISC SASSTONETY DOM CORMING CORP                                                               |        | 71-2489-1    | A-50       | 771.0  | 498  |       |       |                                                                                                  |      |          | -             | 15          | DVUPXX        |
| SILASIIC I-O-KIV DOW CORNING CORP                                                                  |        | 71-2496      | Š          | 1500.0 |      | 20    | 00/04 |                                                                                                  |      |          | 4             | 1           | AECKGL        |
| SICASTIC LAGHATY DOM CORNING CORP                                                                  |        | 71-2496-1    | GOX.       | 1500.0 |      | -     | 01/03 |                                                                                                  |      |          | <b>-</b> -    | 2           | AECKGL        |
| SILASTIC LAGATY DOM CORNING CORP                                                                   |        | 71-2496-2    | Š          | 1000.0 |      | •     |       | 342                                                                                              | 342  |          | 2             | 5           | AECKG         |
| SILASIJU JIB-KIV DOM CORNING CORP                                                                  |        | 70-2205      | X QS       | 1500.0 |      | Ť     | 00/04 |                                                                                                  |      |          | ۹             | 01          | BADPXX        |
| SILASIIC SILBHRIY DON CORNING CORP                                                                 |        | 70-2205-1    | ŝ          | 1000.0 |      |       |       | 44]                                                                                              | 441  |          | 0             | - 13        | <b>SADPXX</b> |
| VILMSVIC JIJG-KIV UDW CURWING CORP<br>KILMSTT JIJG-DIC DAU COMMING CORP                            |        | 70-2205-2    | 202        | 50.0   |      |       |       | 442                                                                                              | 442  |          | 0             | 2           | BADPXY        |
| CHACTIC PLICTIC DUR CUMING CURE                                                                    |        | 10-2005 -05  | ŝ          |        |      |       |       | 4 4 C                                                                                            | 50   |          | 5 (           | <u> </u>    | BADPXX        |
| SILASTIC BILA-RTY DOW CDANTING CORP                                                                |        | 70-2205-5    | ŝ          |        |      |       |       | 5<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |      |          | 54            | 3           | BAUPXX        |
| SILASTIC 3118-RTV DOW CGRNTNG CORP                                                                 |        | 70-2205-6    | ŝ          | 0,000  |      |       |       | 2.6.6                                                                                            |      |          | בכ            | 3 4         | RADEYY        |
| SILASTIC 3120 RTV DOM CORNING CORP                                                                 |        | 71-2+07      | õ          | 250.0  |      | -     | 00/04 | )<br>)<br>)                                                                                      |      |          | <b>&gt;</b> ( | 10          | RADPXX        |
| AILASTIC 3120 RTV DON CORNING CORP                                                                 | •      | 71-2407-1    | COX        | 75.0   |      |       |       | 645                                                                                              | 645  |          | 0             | 6           | BADPXK        |
| SILASTIC 601 RTV DOM CORNING CORP                                                                  |        | 71-2364      | Š          | 1500.0 |      | 20    | 20/04 |                                                                                                  |      |          | 4             | 1           | DRDSXX        |
| SILASTIC 601 RIV DOM CORNING CORP                                                                  |        | 71-2364-1    | SCX<br>SCX | 1500.0 |      | -     | 10/10 |                                                                                                  |      |          | 7             | 10          | DADSXX        |
| SILASTIC OUL RIV UOW CORMING CORP                                                                  |        | 71-2364-2    | Š          | 1000.0 |      | 1     |       | 420                                                                                              | 420  |          | <b>C</b>      | 13          | DRDSXX        |
| SILASTIC OUL ATV DOW CURNING CORP                                                                  |        | 71-2364-3    |            | 14.7   |      | 20    | 10/04 |                                                                                                  |      |          | 4             | 16          | DRDSXX        |
| SILASIIC OUL RIV UGA CURAING LUKP                                                                  |        | 71-2364-4    | X 10 X     | 14.7   |      | 002   | 00/04 |                                                                                                  |      |          | •             | 16          | DRDSXX        |
| SILASII OUL KIV UUN CUMUNG CUM<br>Silasti kai sit saa                                              |        | (-+967-1)    | X          | 1000.0 |      |       | 10/00 |                                                                                                  |      |          | • •           | 2:          | DRDSXX        |
|                                                                                                    | 0.00   | 0-+007-11    |            | 00001  | -    | 200   | 40/00 | 000                                                                                              |      |          | <b>«</b> (    | = !         | ORDSXX        |
|                                                                                                    | •      | 25 - 05 - 15 | 10.1       | 0.0    | 1000 |       |       | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~                                                          | ナナナニ |          | r             | -           | ABCKXX        |

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| MFGR S DESIGNATION     | MANUFAC TUK ER        | SPEC.<br>THICK. | TEST RPT NO. | TEST<br>ENVR | TEST<br>PRESS | TEAP 5 | MP T<br>Nrk | NO CIF FI | ASH F    | TAF PR                                                                   | UP WT<br>ST LNSS | α –        | 1<br>Ū                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ATL<br>UDE     |
|------------------------|-----------------------|-----------------|--------------|--------------|---------------|--------|-------------|-----------|----------|--------------------------------------------------------------------------|------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| S11 ASTIC 731-81V      | DON CORNING CGRP      | • 00 5 0        | SP-6932-1    | ŠŐX          | 10.0          |        |             | -         | 130      | 820                                                                      |                  | ŝ          | 3 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BCKXX          |
|                        | DOM CORNING CORP      | • 0050          | SP-6932-10   | 60X          | 1000.0        |        |             | 10/00     |          |                                                                          |                  | 4          | ۹<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BCKXX          |
| SILASTIC 731-RTV       | DEN CORNING CORP      | • 0050          | SP-6932-11   | Š            | 1500.0        |        |             | 10/00     |          |                                                                          |                  | 4          | 3<br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BCKXX          |
| STLASTIC 731-RTV       | DON CORNING CORP      | • 0050          | SP-6932-12   | 60X          | 2000.0        |        | Ť           | 10/00     |          |                                                                          |                  | 4          | <b>a</b><br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BCKXX          |
| VIA-167 2112A          | DOM CORNING CORP      | .0050           | SP-6932-13   | CO X         | 2500.0        |        |             | 10/00     |          |                                                                          |                  | 4          | ā<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BCK X X        |
| STLASTIC 731-RTV       | DOM CORNING CORP      | • 0050          | SP-6932-14   | <b>20X</b>   | 3000.0        |        |             | 00.01     |          |                                                                          |                  | 4          | ¥ ہ<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BCKXX          |
| STLASTIC 731-RTV       | DOW CORNING CORP      | • 0050          | SP-6932-15   | ХOS          | 3500.0        |        |             | 02/01     |          |                                                                          |                  | •          | <b>₹</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BCK XX         |
| STIASTIC 731-RTV       | DOM CORNING CORP      | • 0050          | SP-6932-16   | 60X          | 0.0004        |        |             | 10/00     |          |                                                                          |                  | 4          | ₹.<br>0,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PCKXX          |
| STLASTIC 731-RTV       | DON CORNING CORP      | • 0050          | SP-6932-17   | X C S        | 4500.0        |        |             | 00/01     |          |                                                                          |                  | 4          | <b>▼</b><br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3CKXX          |
| SILASTIC 731-RTV       | DOM CORNING CORP      | • 0050          | SP-6932-18   | XOS          | 5 000 - 0     |        |             | 00/07     |          |                                                                          |                  | 4          | <ul> <li></li> <li><!--</th--><th>BCKXX</th></li></ul> | BCKXX          |
| SILASTIC 731-RTV       | DOM CORNING CORP      | .0050           | SP-6932-19   | š            | 500.0         | ~      | 00          | 10/00     |          |                                                                          |                  | 4          | × .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BCK XX         |
| SILASTIC 731-RTV       | DON CORNING CORP      | • 0050          | SP-6932-2    | GOX          | 20.0          | 1000   |             | ž         | 4 656    | 6661                                                                     |                  |            | × •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BCKXX          |
| SILASTIC 731-RTV       | DOM CORNING CORP      | •0050           | SP-6932-20   | Š            | 1000.0        | ~      | 00          | 10/00     |          |                                                                          |                  | 4          | <<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PCKXX          |
| 51LASTIC 731-RTV       | DON CORNING CORP      | • 0050          | SP-6932-21   | 60 X         | 1500.0        | N.     | 8           | 10/00     |          |                                                                          |                  | ٩.         | < •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BCNXX          |
| SILASTIC 731-RTV       | DON CORNING CORP      | -0050           | SP-6932-22   | Š            | 2000.0        | ~      | 00          | 00,04     |          |                                                                          |                  | < .        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BURAR          |
| STLASTIC 731-RTV       | DOM CORNING CORP      |                 | 5P-693"-23   | COX<br>COX   | 500.0         |        | 50          | 00/04     |          |                                                                          |                  | ٩.         | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BURAN          |
| SILASTIC 731-RTV       | DOM CORNING CORP      |                 | SP-6932-24   | ŝ            | 500.0         |        |             | 00/04     |          |                                                                          |                  | 4          | ч.<br>Э.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BCKXX          |
| STLASTIC 731-RTV       | DON CORNING CORP      |                 | SP-6932-25   | 20X          | 1500.0        |        | 50          | 00/04     |          |                                                                          |                  | 4          | < ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BUKXX          |
| STLASTIC 731-PTV       | DON CORNING CORP      |                 | SP-6932-26   | 60,          | 1500-0        |        |             | 40/00     |          |                                                                          |                  | •          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BCKXX          |
| SILASTIC 731-RTV       | DOM CORNING CORP      | • 0050          | SP-6932-3    | X09          | 25.0          |        |             | -         | 108      | 108                                                                      |                  | 0          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BCKXX          |
| STLASTIC 731-RTV       | DON CORNING CORP      | • 0C50          | SP-6932-4    | ŝ            | 30.0          |        |             |           | 620      | 620                                                                      |                  | 20         | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BURAN          |
| SILASTIC 731-RTV       | DON CORNING CORP      | + 0050          | SP-6932-5    | 60X          | 40.0          |        |             |           | 660      | 660                                                                      |                  | c (        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BCKXX          |
| STLASTIC 731-RTV       | DON CORNING CORP      | .0050           | SP-6932-6    | š            | 50-0          |        |             |           | 100      | 100                                                                      |                  | 2          | <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BCRAX          |
| S 11 AST 1C 731-RTV    | DON CORNING CORP      | • 0050          | SP-6932-7    | x03          | 62.0          | 1000   |             |           | 693      | 6667                                                                     |                  | > (        | × 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BCKXX          |
| STLASTIC 731-RTV       | DON CORNING CORP      | •0050           | SP-6932-8    | Š            | 165.0         |        |             |           | 668      | 668                                                                      |                  | 0          | ≪ ·<br>≏ !                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BCKXX          |
| CTIACTIC TRI-ETV       | THIN CORNING CORP.    | .0050           | SP-6932-9    | 60X          | 1565.0        |        |             | -         | Ş        | 404                                                                      |                  | 0          | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BCKXX          |
| KILASTIC BRI-RTV       | DOW CORNING CORP      | .0750           | 70-2193      | ¥09          | 1500.0        |        |             | 01/02     |          |                                                                          |                  | <b></b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ADSXX          |
| SILASTIC BBI-RTV       | DOW CORNING CORP      | • 0250          | 70-2193-1    | 60X          | 1500.0        |        | 50          | 00/04     |          |                                                                          |                  | •          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AUSXX<br>27206 |
| STLASTIC BB1-RTV       | DON CORNING CORP      |                 | 70-2193-11   | ŝ            | 25.0          |        |             |           | 686      | 680                                                                      |                  | 5          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AUSAX          |
| SILASTIC BB1-RTV       | DON CORNING COR?      |                 | 70-2193-12   | X 00         | 20.0          |        |             |           | 663<br>2 | 663<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>20 |                  | 20         | 23<br>19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | X7204          |
| SILASTIC BBI-RTV       | DON CORNING CORP      |                 | 70-2193-2    | Š            | 1000.0        |        |             |           |          | 2                                                                        |                  | •          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |
| SILASTIC BBI-RTV       | DON CORNING CORP      |                 | 10-2193-07   | ŝ            | 0.0001        |        |             | 10/10     | 475      | 475                                                                      |                  |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | XXSOF          |
| STLASTIC BEL-RTV       | DON CORNING CORP      |                 | +-C 512-0/   |              |               |        |             |           | 47.4     | 438                                                                      |                  | 0          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ADSXX          |
| SICASTIC BB1-KIV       | CONTRACTOR            |                 | 70-2103-0    | ŝ            | 0005          |        |             |           | 363      | 363                                                                      |                  | 0          | 13.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ADSXX          |
| 51[A51]C 881-414       | DAM CURAING CURA      |                 | 70-2193-7    | KO9          | 1500-0        |        |             |           | 326      | 326                                                                      |                  | ٥          | <b>1</b> 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ADSXX          |
|                        | DON CORNING CORP      |                 | 70-2193-A    | Š            | 2000.0        |        |             |           | 300      | 300                                                                      |                  | 0          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | XXSON          |
| SALASTIC BULATV        | CON COPNING CORP      |                 | 70-2193-9    | S<br>S<br>S  | 1000.0        | 432    |             |           |          |                                                                          |                  | 61         | 2<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ADSXX          |
| SILASTIC B82-RTV       | DON CORNING CORP      |                 | 71-2490      | . A-50       | 781.0         | 200    |             |           |          |                                                                          |                  | - 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ××4000         |
| SILASTIC 882-RTV       | DOM CORNING CORP      |                 | 71-2490-1    | A-50         | 764.0         | 505    |             |           |          |                                                                          |                  | - 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22.22          |
| SILCON/R ALUMINUM PAIN | T DEXTER CORP         |                 | 71-2377      | Š            | 500.0         |        | 50          | 00/04     |          |                                                                          |                  | •          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *****          |
| SILCON'R ALUMINUM PAIN | T DEXTER CORP         |                 | 71-2377-1    | COX          | 200.0         |        |             | 00/04     | 000      | 0000                                                                     |                  | ۹ '        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |
| SILCON/R /LURINUM PAIN | T DEXTER CORP         |                 | 71-2377-2    | ŝ            | 100.0         | 0001   |             | 2         | 446      | ***                                                                      |                  | <b>7</b> F |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |
| CTITCAME CTD GLASS CUD | TH3M.DIELECTRIC MATLS | >10             | 71-2561      | INN          | 181.0         | 3 QH   |             |           |          |                                                                          |                  | -          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |

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| MFGR S DESIGNATION                              | MANUFACTURER             | SPEC.  | TEST RPT NO. | TEST    | TEST   | TEST | TAMI       | NO OF        | FLASH | F ] R F D   | ٩٥٩   | нΥ  | R<br>T               | Ă          | ٦           |
|-------------------------------------------------|--------------------------|--------|--------------|---------|--------|------|------------|--------------|-------|-------------|-------|-----|----------------------|------------|-------------|
|                                                 |                          | THICK. |              | ENVR    | PRESS  | TEMP | ENER       | REACT        | PUINT | 0 T d       | 151 L | 055 | 1                    | 0          | DE          |
| SILICONE CTD GLASS CLOTH                        | H3M.DIELECTRIC MATLS DIV |        | 71-2561-1    | I       | 787.0  | 510  |            |              |       |             |       |     | 1                    | u          | C K GD      |
| STLICONE GLASS CLOTH                            | ELECTRO PRODUCTS         |        | 70-2004      | XU3     | 1500.0 | •    | 0          | 707 00       |       |             |       |     |                      | - 0        |             |
| SHLICONE GLASS CLOTH                            | ELECTRO PROMUCTS         |        | 70-2096-1    | ŝ       |        |      | R          | 10/00        |       |             |       |     |                      | ن د<br>۵ م |             |
| SIL ICONE GLASS CLOTH                           | ELECTRO PRODUCTS         |        | 70-2096-2    | 60X     | 0.0001 |      |            |              | 25    | 005         |       |     |                      |            |             |
| \$1LICONE 0-RING 1063-70                        | PLASTICS + RUBBER PRODS  |        | 70-1593-2    | Ň       | 62.0   | 0001 |            |              | 000N  | 0000        |       |     | ] _                  |            |             |
| SILICOME O-RING 1063-70                         | PLASTICS + RUBBER PRODS  |        | 70-1593-3    | XOS     | 165.0  | 1000 |            |              | 755   | 000N        |       |     |                      | 53         |             |
| SILICONE RUB SM 3500-41                         |                          |        | 71-2694      | Š       | 1500-0 |      |            | 10/10        |       |             |       |     |                      | 2          |             |
| STLTCONE NUB SN 3500-41                         |                          |        | 71-2694-1    | GOX     | 1000-0 |      |            |              | 346   | 364         |       |     | : :<br>- c           |            | AXA D       |
| SILICONE RUG 6070                               | MICHOLS ENCINEERING      |        | 71-2386      | ŝ       | 500-0  |      | 50         | 00/04        |       |             |       |     |                      | 52         | 1 1 4 4 4 4 |
| SPLTCOME RUB 6070                               | MICHOLS ENGINEERING      |        | 71-2386-1    | COX     | 500.0  |      | ł          | 40/00        |       |             |       |     |                      | 53         | XX DO XX    |
| Silicone Rub 4070                               | MICHOLS ENGINEERING      |        | 71-2386-2    | ğ       | 100.0  |      |            |              | 535   | 535         |       |     |                      | E E        | DPXX        |
| \$7L BCONE RUBBER. ANS 3357                     | 7AGC INC.                |        | 71-2380      | X OS    | 500.0  |      | 50         | 00/04        |       | 1           |       |     |                      | 3          | XXX         |
| SILECTIVE RUBBER. ANS 3357                      | 7AGC 1%C.                |        | 71-2390-1    | XQ3     | 500.0  |      |            | <b>70/00</b> |       |             |       |     | ×                    | 2          | CKXX        |
| SIL KONE RUBBER. ANS 3357                       | 746C 1NC.                |        | 71-2380-2    | 60 X    | 100.0  |      |            |              | 550   | 550         |       |     | 0 13                 | 3          | CKXX        |
| 514 IC UNE 5-355-7                              | PARKER SEAL/LOS ANGLS    |        | 71-2373      | Š       | 500.0  |      | 50         | 00/04        |       |             |       |     | 4                    | 3          | XX40        |
| 51L FCOME S-355-7                               | PARKER SEAL/LOS ANGLS    |        | 71-2373-1    | COX     | \$00°0 |      |            | 40/00        |       |             |       |     | A 10                 | 5          | XXdQ        |
| \$1L1CONE 5-355-7                               | PARKER SEAL/LOS ANGLS    |        | 71-2373-2    | Š       | 1500.0 |      |            | 01/01        |       |             |       |     | T LC                 | 3          | OPXX        |
| STL PCONE S-355-7                               | PARKER SEAL/LOS ANGLS    |        | 71-2373-3    | GOX     | 1500.0 |      | 50         | 00/04        |       |             |       |     |                      | 5          | XX 40       |
| 514.1CONE S-355-7                               | PARKER SEAL/LOS ANGLS    |        | 71-2373-4    | ŝ       | 100.0  |      |            |              | 57 A  | 57 <b>8</b> |       |     | 0                    | 3          | XX 40       |
| SIL \$CONE \$-355-7                             | PARKER SEAL/LOS ANGLS    |        | 71-2373-5    | LOX     | 14.7   |      | 50         | 00/04        |       |             |       |     | A 16                 | 5          | DPXX        |
| 511 ICONE 5-355-7                               | PARKER SEAL/LOS ANGLS    |        | 71-2373-6    | Ľõx     | 14.7   |      | 200        | 00/04        |       |             |       |     | A 16                 | 3          | XXdQ        |
| 511 1CONE 5-355-7                               | PARKER SEAL/LOS ANGLS    |        | 71-2373-7    | 60 X    | 1000.0 |      | 50         | <b>40/00</b> |       |             |       |     | II V                 | 3          | DPXX        |
| SILICONE S-355-7                                | PARKER SEAL/LOS ANGLS    |        | 71-2373-8    | Š       | 1000.0 |      | 200        | 01/02        |       |             |       |     | 1 1                  | 5          | <b>NPXX</b> |
| SILTCOME 5-355-7                                | PARKER SEAL/1.05 ANGLS   |        | 71-2373-9    | Š       | 1000.0 |      |            |              | 478   | 47R         |       |     | 0                    | E<br>E     | XXaO        |
| 5113CONC 5550                                   | 6.E. SILICONE PRODUCTS   |        | 69-1281      | Š       | 1265.0 |      |            |              | 470   | 470         |       |     | E 0                  | AN I       | <b>VPXX</b> |
|                                                 | G-E- SILICONE PRODUCTS   |        | 69-1281-1    | XOS     | 1565.0 |      |            |              | 432   | 432         |       |     | 5                    | A C        | DP X X      |
| 511.1CONE 5550                                  | 5-E- SILICONE PRODUCTS   | •0150  | 69-1281-2    | Š       | 1500.0 |      |            | 10/10        |       |             |       |     | 1 10                 | AA (       | DPXX        |
|                                                 | G-E- SILICONE PRODUCTS   | •0750  | 69-1281-3    | 60×     | 1500.0 |      | 50         | 00/04        |       |             |       |     | A LI                 | HY         | DPXX        |
| SICYER SULDER NU. 1015                          | ROSENUMI ENG. CORP       |        | 10-1584      | Š       | 1500.0 |      | 20         | 00/04        |       |             |       |     | 4 11                 | Ϋ́.        | XXXW        |
| SILVEN SULDER NO. 1618<br>Strike Corde No. 1416 | ROSEMONT ENG. CORP       |        | 70-1984      | X 09    | 1500.0 |      |            | 00/07        |       |             |       |     | 4<br>10              | Ť          | XXXW        |
| SILVER SULUER HUN LOUGH                         | NUSERURI ENG. CURP       |        | 1-1261-0/    | ŝ       | 00061  | 1000 |            |              | 666N  | 605N        |       |     | <b>A</b> 13          | ž          | XXXI        |
|                                                 | HANDY AND HARMON         |        | 70-1924      | X OS    | 1500.0 |      | 20         | 00/04        |       |             |       |     | []<br>¥              | ž          | MAXX        |
| SILVER SULVER UN-5-7010                         | TARUT AND FARTON         |        | 70-1924      | X B     | 1500.0 |      |            | 00/07        |       |             |       |     | A 10                 | ž          | XXV         |
| SILVER SULUER-BRALING                           |                          |        | 2261-02      | X DO    | 1500.0 |      | 20         | 20/04        |       |             |       |     | 4 11                 | E          | XXXX        |
| BILTER SULDER-BRAZING                           | EUTECTIC COMP            |        | 70-1922      | ŝ       | 1500.0 |      |            | 00/04        |       |             |       |     | A LC                 | 5          | XXXW        |
| SILVERAA FINE                                   |                          | •      | 70-2061      | A-50    | 778.0  | 506  |            |              |       |             |       |     | 5                    | 8          | XXXW        |
| SILVERAAA PINE                                  |                          |        | 70-2061 1    | A-50    | A07.0  | 507  |            |              |       |             |       |     | 5                    | ð          | MRXA        |
| SINCO 567 LEAK DETECTOR                         | SINCO                    |        | 70-1827      | X OU    | 5000.0 |      | <b>c</b> . | 00/04        |       |             |       |     |                      | Ē          | XX NO       |
| SIMCO 567 LEAK DETECTOR                         | SIMCO                    |        | 70-18271     | õ       | 5200.0 |      |            | 00/04        |       |             |       |     | A 10                 | Έ          | SUXX        |
|                                                 | KESTER SOLDER CO.        |        | 71-2657      | A-50    | 772.0  | 517  |            |              |       |             |       |     | 12                   | Ť          | MSMP        |
|                                                 | KESTER SOLDER CD.        |        | 71-2657-1    | A-50    | 766.0  | 505  |            |              |       |             |       |     | T 15                 | ų.         | MSMP        |
|                                                 |                          | •0150  | 70-2143      | Š       | 1500.0 |      |            | 00/04        |       |             |       |     | 0 I V                | J.         | MSHR        |
| 21 70<br>Ch de                                  |                          |        | 10-2143-1    | A-9 U   | 0.111  | 8    |            |              |       |             | •     |     | ر <del>بر</del><br>ت |            | N N N N     |
|                                                 |                          |        | 2-6-12-01    | 0 C - 4 | 771.0  | 514  |            |              |       |             |       |     | 7 15                 | ŝ          | ANSE        |

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| MFGR 5 DESIGNATION          | MANUFACTURER                          | SPEC.<br>THICK. | TEST RPT NO. | TEST<br>Envr | TEST<br>PRESS | TEST .       | MPT | NO UF<br>REACT | FLASH<br>POINT | FTRF (<br>PT ( | 0151 L | wT<br>NSS | ч н<br>н       | C I J D    | ۔<br>۳     |
| SN 96.5 SN/AG 3.5           | GAC                                   |                 | 70-2143-3    | N204         | 361.5         | 195          |     |                |                |                |        |           | 1 10           | HWQ 4      | SMR        |
| SN 96+5 SH/AG 3+5           | GAC                                   |                 | 70-2143-4    | N204         | 360-0         | 190          |     |                | •              |                |        |           | 14             | MNC .      | CM0        |
| SN-60                       | KESTER SOLDER CO.                     |                 | 70-1960      | A-50         | 763.0         | 507          |     |                |                |                |        |           |                | Ĭ          | SMP        |
| SN-60                       | KESTER SOLDER CO.                     |                 | 70-1960-1    | A-50         | 814.0         | 518          |     |                |                |                |        |           | T 15           | Y<br>L     | SMP        |
| <b>5N-6</b> 0               | KESTER SOLDER CD.                     |                 | 70-1960-2    | INI          | 750.0         | 509          |     |                |                |                |        |           | -              | ¥<br>¥     | SMP        |
| SN-60                       | KESTER SOLDER CO.                     |                 | 70-1960-3    | INN          | 756-0         | 507          |     |                |                |                |        |           |                | N N N      | dwy        |
| SN-60 00-5-571              | KESTER SOLDER CO.                     |                 | 70-2137      | ŝ            | 4500.0        |              |     | 00/07          |                |                |        |           | • •            | L X I      | SMP        |
| SH-60 00-S-571              | KESTER SOLDER CO.                     |                 | 70-2137-1    | XU9          | 0-000 0       |              | 50  | 90/00          |                |                |        |           |                | - U        | CWC        |
| 54-60 40-S-57               | KESTER SOLDER CO.                     |                 | 70-2137-2    | ŝ            | 1000.00       | <sup>•</sup> |     | 10/10          |                |                |        |           | :-<br>: -      |            | dWS        |
| SH-#0 00-5-571              | KESTER SOLDER CO.                     |                 | 70-2137-3    | XUI          | 14.7          | -            | 205 | 90/00          |                |                |        |           | 4 V            | M X L      | C M D      |
| SH-60 00-5-571              | KESTER SOLDER CO.                     |                 | 70-2137-4    | FOX          | 14.7          | n            | 00  | 00/00          |                |                |        |           | 2 4 4<br>2 4 4 | E H H      | SMP        |
| SH-60 00-5-571              | KESTER SOLDER CO.                     |                 | 70-2137-5    | A-50         | 791.0         | 503          | ;   |                |                |                |        |           | 12             | FKN        | SMP        |
| SWEED W-RA-P2               | KESTER SOLDER CO.                     |                 | 71-2329      | ŝ            | 1500.0        |              | 50  | 00/04          |                |                |        |           |                | M X L      | SHP        |
|                             | KESTER SOLDER CO.                     |                 | 71-2329-1    | 20X          | 1500.0        |              |     | 00/04          |                |                |        |           | A 10           | T K T      | SHP        |
|                             | <b>GAC</b>                            |                 | 70-2137-6    | N204         | 289.4         | 130          |     |                |                |                |        |           | 8<br>7<br>7    | RXM<br>MXL | SMP        |
| SH-60-C. S-571.             | EAC                                   |                 | 70-2137-7    | N204         | 297.7         | 144          |     |                |                |                |        |           | A 14           | M X L      | SMP        |
| 5M30/P876-P870 .00-5-571    | ۲4                                    |                 | 71-2653      | A-50         | 766.0         | 506          |     |                |                |                |        |           | 1 15           | FKM        | SMd        |
| 5430/2670-P870 00-5-571     |                                       |                 | 71-2653-1    | A-50         | 765.0         | 520          |     |                |                |                |        |           | T 15           | F K M      | PMS        |
| 500.0EX 9558./5 58          | ۔<br>ه                                |                 | 71-2660      | A-50         | 743.0         | 502          |     |                |                |                |        |           | 15             | FKM        | SMP        |
| SOLUCEN 995M/5 SB           | · · · · · · · · · · · · · · · · · · · |                 | 71-2660-1    | A-50         | 698.0         | 504          |     |                |                |                |        |           | 1 15           | FKM        | SMP        |
| SOLDER. SILVER              |                                       |                 | 70-1952      | A-50         | 821.0         | 494          |     |                |                |                |        |           | 1 15           | FXH        | RXX        |
| SOLDER STUVER               |                                       |                 | 70-1952-1    | A-50         | 760.0         | 505          |     |                |                |                |        |           | 11             | FKM        | RXX        |
| SOLDER. SILVER.             |                                       |                 | 70-1952-2    | I            | 745.0         | 696          |     |                |                |                |        |           | T 15           | F KM       | RXX        |
| SOLDER SULVER               |                                       |                 | 70-1952-3    | III          | 808.0         | 512          |     |                |                |                |        |           | T 15           | F K M      | RXX        |
| 01-109 85                   | STILLMAN RUBBER DIV                   |                 | 70-1968      | A-50         | 319.0         | 541          |     |                |                |                |        |           | 1 15           | IVC<br>IVC | 2 X X      |
| 5K 684-70-                  | STELLMAN RUBBER DIV                   |                 | 70-1968-1    | A-50         | 521.0         | 478          |     |                |                |                |        |           | 13             | 2<br>N     | 2 X X      |
|                             | STILLMAN RUDBER DIV                   |                 | 70-1968-2    | A-50         | 767.0         | 504          |     |                |                |                |        |           | T 15           | DVC :      | X X Z      |
| 5H 634-70                   | STILLMAN RUBBER DIV                   |                 | 70-1968-3    | I W W        | 732.0         | 493          |     |                |                |                |        |           | T 15           | DVC -      | X X Z      |
| 54 634-7Q                   | STILLMAN RUBBER DIV                   |                 | 70-1968-4    | HWW          | 769.0         | 502          |     |                |                |                |        |           | T 15           | 1000       | X X Z      |
| PLACE NO                    | STILLMAN RUBBER DIV                   |                 | 71-2277      | 4-50         | 472.0         | 442          |     | •              |                |                |        |           | 1 15           | S<br>HC    | ZXX        |
|                             | STILLMAN RUBBER DIV                   |                 | 71-2277-1    | A-51         | 315.0         | 39 J         |     |                |                |                |        |           | 1 15           | E E E      | XXZ.       |
| SR-2702-75 FLUOROCARRON     | SARGENT UNDUSTRIES                    |                 | 71-2253      | COX          | 100.0         |              |     |                | 622            | 622            |        |           | <b>E</b><br>0  | 040        | GXX        |
|                             | SARGENI INUUSIKIES                    |                 | 11-2253-1    | S S          | 0000          |              | 20  | 0/04           |                |                |        |           | A LI           | 040        | XXO        |
|                             | SARGENI INDUSINIES                    |                 | 01-6522-11   | XDS.         | 0.004         |              |     |                | 435            | 435            |        |           | 0              | 040        | XX         |
| SKT2762 TO FLUDRUC ARBUN    | SARGENT, LADUS TRIES                  |                 | 71-2253-12   | Ê.           | 59.0          |              |     |                | 794            | 794            |        |           | а<br>0         | 000        | SXX<br>SXX |
|                             | SARGENI INDUSIRIES                    |                 | 71-2253-13   | 20%          | 1500.0        |              |     |                | 396            | 396            |        |           | 5              | 000        | XX         |
| SR-2702-75 FLUDROCARBON     | SARGENT INDUSTRIES                    |                 | 71-2253-14   | × Oč         | 2000-0        |              |     |                | 369            | 369            |        |           | 0              | 040        | XX         |
| 5R-2702-75 FL UDROCARBON    | SARGENT INDUSTRIES                    |                 | 71-2253-15   | ×09          | 1000.0        |              |     |                | 461            | 461            |        |           | 50             | 000        | GXY        |
| , 54-2702-75 FLUORDCARBON   | SARGENT INDUSTRIES                    | :               | 71-2253-16   | ອິ           | 1000.0        |              |     |                | 461            | 461            |        |           | 0 13           | 040        | XXO        |
| SK-Z /UZ- /5 FLUOROCARBON   | SARGENT INDUSTRIES                    |                 | 71-2253-2    | 60 X         | 500.0         |              |     | 00/04          |                |                |        |           | A 10           | 040        | XX<br>QXX  |
| SK-Z TOZ-T5 FLUDRUC ARBON   | SARGENT INDUSTRIES                    |                 | 71-2253-3    | õ            | 1500.0        |              | 50  | 40/00          |                |                |        |           | 1 4            | 040        | SXX        |
| SK-2702-75 FLUOROCARBUN     | SARGENT INDUSTRIES                    |                 | 71-2253-4    | 20           | 1500.0        |              | -   | 01/01          |                |                |        |           | <b>λ 1</b> 0   | 040 0      | XXU        |
| MUGAN JUNUU JE CI ~20/ 2-MG | SAKGENT INDUSTRIES                    |                 | 71-2253-5    | Š            | 1000,0        |              |     | 01/02          |                |                |        |           | 1 10           | 060 0      | XXO        |
| 5K-2702-75 FLUURUCANDUM     | SARGENT INDUSTRIES                    |                 | 71-2253-6    | GOX          | 5000.0        |              | ŝ   | 40/00          |                |                |        |           | A 11           | 040        | CXX<br>0   |

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| MFCR S DESIGNATION MANUFACTURER              | SPEC. TEST RPT NO<br>Thick. | 3. TEST<br>EMVD | TEST<br>DDECC | TEST | 1 MP T   | N0 0F        | FL ASH | F ] R E | 0 - 0 - 0 | E C C | <b>u</b> • |              | 44.TL         |
|----------------------------------------------|-----------------------------|-----------------|---------------|------|----------|--------------|--------|---------|-----------|-------|------------|--------------|---------------|
|                                              |                             |                 |               |      |          | 17834        |        | 5       | 1010      | 1022  | -          | ر<br>-       | ,00E          |
| SK-2702-75 FLUORDC ARBON SARGENT INDUSTRIES  | 71-2253-8                   | ŝ               | 25.0          |      |          |              | A29    | A3A     |           |       | c          | 13 0         | (X 90ac       |
| SA-2702-75 FLUORDCARBON SARGENT ANDUSTRIES   | 71-2253-9                   | COX             | 50.0          |      |          |              | 503    | 503     |           |       | 0          | 3 0          | XX UCA        |
| 58-634-70                                    | 10-62                       | XQS             | 1500.0        |      | 50       | 90/00        |        |         |           |       | •          |              | 176700        |
| 81-934-78                                    | 10-62-1                     | X09             | 1500-0        |      |          | 01/02        |        |         |           |       | -          | .0           |               |
| SRG-0410CTD F/G-5404-1023H CO. ST. PAUL      | 71-2364                     | XQS             | 500.0         |      | 50       | 00/04        |        |         |           |       |            | 2            | TATE C        |
| SAG-0610CTD F/G-54C4-1023H CD. ST. PAUL      | 71-2384-1                   | GOX             | 500.0         |      | •        | 40/00        |        |         |           |       |            |              |               |
| SRE-0310CT0 F/G-5406-1023M CO. ST. PAUL      | 71-2384-2                   | XOS             | 100.0         |      |          |              | 484    | 498     |           |       | C          |              | VECK G        |
| SRG-2119CTO F/G-5469-1023H CO. 57. PAUN      | 71-2345                     | CO X            | 500.0         |      | ŝ        | 20/00        |        | •       |           |       |            |              |               |
| SR6-2119CT0 F/6-5469-1023H CD. ST. PAUL      | 71-2385-1                   | X               | 500-0         |      | <u>k</u> | 00/00        |        |         |           |       | ( 4        |              |               |
| SR6-2115CTD F/G-5449-1023N CO. ST. PAUL      | 71-2385-2                   | X09             | 100.0         |      |          |              | 474    | 474     |           |       | 6          |              | NFCKG0        |
| SS-304 00-5-763 GAC                          | 70-2105                     | XOS             | 5000-0        |      | 50       | 00/04        |        |         |           |       | . •        | 12           | IN LWHC       |
| SG-304 GB-5-763 GAC                          | 70-2105-1                   | X09             | 5000.0        |      |          | 00/00        |        |         |           |       |            |              | IN M          |
| 55-30+ #0-2-143 EAC .                        | 70-2105-2                   | ž               | 6800.0        |      |          | 40/00        |        |         |           |       | 4          |              | NIN IN        |
| SS-4101 RTV PRIMER 6.46. SILICOME PRODUCTS   | 71-2268                     | COX             | 1000.0        | 1000 |          |              | 9994   | 000N    |           |       | •          | 1            | VUDPXX        |
| STABOND 136 ADHESIYE AMERICAN LATEX PRODUCTS | 71-2569                     | ŝ               | 1500.0        |      | 50       | <b>E0/E0</b> |        |         |           |       | -          |              | 188YX)        |
| STADOND 136 ADMESIVE AMERICAN LATEX PRODUCTS | 71-2569-1                   | COX             | 250.0         |      |          | 00/03        |        |         |           |       | •          | 0            | BBYXX         |
| STABOND 136 ADHESIVE ANERICAN LATEX PROPUCTS | 71-2569-2                   | ŝ               | 1000.0        |      | 50       | 02/10        |        |         |           |       | -          |              | BBYXS         |
| STABOND 134 ADMESIVE AMERICAN LATEX PRODUCTS | 71-2569-3                   | COX<br>COX      | 1250.0        |      | 50       | 01/01        |        |         |           |       | <b>.</b>   |              | BBYXX         |
| STABOND 134 ADMESIVE AMERICAN LATEX PRODUCTS | 71-2569-4                   | Š               | 9.00.0        |      | 50       | 00/00        |        |         |           |       | 4          |              | (X 484)       |
| STABOND 136 ADMESIVE ANERICAN LATEX PRODUCT  | 71-2569-5                   | COX             | 1000.0        |      | 25       | 02/05        |        |         |           |       |            |              | BBYXX         |
| STABOND 136 ADMESIVE AMERICAN LATEX PRODUCTS | 71-2569-6                   | ŝ               | 9006          |      | 25       | 00/02        |        |         |           |       | 4          |              | BBYXX         |
| STAKTO POLYESTA+105A RESULTACHIX INC         | 71-2677                     | A-50            | 755.0         | 500  |          |              |        |         |           |       | <b>.</b>   | . 44<br>1 50 | ACCXX         |
| STAK VD POLYESTA+105A RESULTRONIX INC        | 71-2677-1                   | A-50            | 767.0         | 517  |          |              |        |         | •         | _     | -          | 5            | ACC XX        |
| STEEL CO PLATED                              | 71-2715                     | A-50            | 759.0         | 23   |          |              |        |         |           |       | -          | 15           | SHOWN         |
| STEEL CO PLATED                              | 71-2715-1                   | A-50            | 763.0         | 521  |          |              |        |         |           |       | -          | 5            | HOWN          |
|                                              | 71-2564                     | XOS             | 1500.0        |      | ŝ        | 00/04        |        |         |           |       | 4          |              | DH I MN       |
| STEEL #-19-C4 ARMCO                          | 71-2564-1                   | ¥09             | 1500.0        |      |          | 00/07        |        |         |           |       | 4          |              | AM I MOS      |
| STELLITE 98N-2 NAVNES ALLOY CORP             | 70-2033                     | A-50            | 777.0         | 501  |          |              |        |         |           |       | -          | 5            | DHOMM         |
| STELLITE 984-2 HAVNES ALLOY CORP             | 70-2033-1                   | Ī               | A32.0         | 529  |          |              |        |         |           |       | 1-         | 5            | DHOMHO        |
| STELLITE 90%-2 HAYNES ALLOY CORP             | 70-2033-2                   | ĨĨĨ             | 783.0         | 510  |          |              |        |         |           |       | -          | 150          | DMUMMU        |
| STELLITE 984-2 HATTES ALLOY CORP             | 70-2033-3                   | I               | 756.0         | 0.64 |          |              |        |         |           |       | ┣          | 15 0         | DHUMMO        |
| STELLITE-25 NAMES ALLOY CURP                 | 71-2241                     | 20X             | 1500.0        |      | 20       | 00/04        |        |         |           |       | 4          | 11 0         | DMOMMO        |
| STELLITE-25 HATNES ALLOY CORP                | 71-2241-1                   | Š               | 1500.0        |      |          | 00/04        |        |         |           |       | 4          | 10           | <b>MONN</b>   |
| STELLITE-60 HAYNES ALLOY CORP                | 71-2243                     | õ               | 1500.0        |      | 20       | 00/04        |        |         |           |       | 4          | 10           | DMOMN         |
| STELL ITE-68 HANNES ALLOY CORP               | 71-2249-1                   | ŝ               | 1500.0        |      |          | 00/04        |        |         |           |       | 4          | 10           | MOMMO         |
| STYCAST 1090 ENERSON CURING INC              | 71-2482                     | A-50            | R16.0         | 528  |          |              |        |         |           |       | -          | 15 8         | LABHXX        |
| STYCAST 1090 ENERSON CUMING INC              | 71-2482-1                   | A-50            | 169.0         | 49 A |          |              |        |         |           |       | -          | 15           | <b>SABHX</b>  |
| STYCAST LOOD ENERSON CUMING INC              | 71-5001                     | 60X             | 5000.0        |      | 50       | 00/04        |        |         |           |       | 4          | 11           | ABHXX         |
| STACAST 1090 EKERSON CUMING INC              | 71-5001                     | ğ               | 5000.0        |      | 50       | 00/00        |        |         |           |       | 4          | 11           | <b>SABHX)</b> |
| STYCAST 1090 EFIERSON CUMING INC             | 71-5001-1                   | 60.4            | 500.0         |      |          | 00/04        |        |         |           |       | 4          | 10           | ABHXX         |
| STYCAST 2090 ENERSON CUMING INC              | 71-5001-1                   | ×09             | 500.0         |      |          | 00/04        |        |         |           |       | ٩          | 108          | <b>JAGHX</b>  |
| STYCAST 2090 ENERSON CUMING INC              | 71-5001-10                  | X OS            | 1000.0        |      |          | 01/04        |        |         |           |       | -          | 10 8         | ABHXX         |
| STYCAST 2090 EREASON CUMING INC              | 71-5001-10                  | ŝ               | 1000.0        |      |          | 01/04        |        |         |           |       | -          | 10           | 3ABHX)        |
| LINLAST 1090 ERERSON CURING INC              | 71-5003-11                  | XCU             | 50.0          |      |          |              | 670    | 670     |           |       | c          | 13 8         | ARMYX         |

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PAGE 48
MATERIAL TEST DATA B' MANUFACTURFR S RESIGNATION AS OF 31 JAN 72

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| MEGR S DESIGNATION                          | , MANUFACTURER       | SPEC.<br>THICK. | TEST RPT NO. | ENVR    | iest<br>Prejs | TEMP EI | MPT N<br>Ner r | D UF F | LASH P | TRF P  | ין גני<br>ז ST נ | WT<br>USS | а н<br>н н  | ΨO<br>ΨU | 23                                      |
|---------------------------------------------|----------------------|-----------------|--------------|---------|---------------|---------|----------------|--------|--------|--------|------------------|-----------|-------------|----------|-----------------------------------------|
| STYCAST 1090                                | EMERSON CUMING INC   |                 | -11-5001-2   | X09.    | 1000-0        |         | C              | 1071   |        |        |                  |           | -           | 44       | АНХХ                                    |
| STYCAST 2090                                | ÉREASON CLIMING INC  |                 | 71-6001-3    | 202     |               |         | ) (            |        |        |        |                  |           |             |          |                                         |
| \$77CAST 1090                               | ENERSON CUMING INC   |                 | 71-5001-4    | ŝ       |               |         | > <            |        |        |        |                  |           | - +         |          | 89193<br>1777                           |
| -STYCAST 1090                               | ENERSON CUNING INC   |                 | 71-5001-5    | 60X     | 2500.0        |         | c c            |        |        |        |                  |           |             |          | ~~~                                     |
| STYCAST 1090                                | EBERSON CUMING INC   |                 | 71-5001-6    | Ň       | 1000.0        |         | ō              | 70/0   |        |        |                  |           |             |          |                                         |
| STACAST 1090                                | E EUSON CUMING INC   |                 | 7-10-2-11    | 20X     | 1000-0        |         | C              | 50/1   |        |        |                  |           | <br>        |          |                                         |
| STYCAST 1090                                | EACTSON CUMING INC   |                 | 71-5001-8    | XQS     | 1560.0        |         | o c            | 201    |        |        |                  |           | - 1-        |          |                                         |
| STYCAST 1090                                | CEREASON CUMING INC  |                 | 71-5001-9    | COX     | 0000          |         | ċ              |        |        |        |                  |           |             |          |                                         |
| STTCAST 2651/CAT 9                          | CHERSON CONING INC   | •0750           | 70-2445      | ŝ       | 5.500.0       | u       |                | 70/0   |        |        |                  |           |             |          |                                         |
| STHCAST 2651/CAT 9                          | ENERGY CLAINE INC    | •0750           | 70-2045-1    | X OS    | 15.00.0       | •       | 20             | 20/1   |        |        |                  |           | 4 1         |          | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| STYCAST 2651/CAT 9                          | ENERSON CUMING INC   |                 | 70-2045-2    | NO.     | 0.0001        |         | i              | -      | 563    | 543    |                  |           |             |          |                                         |
| 5TYCAST 2651/CAT 9                          | BUCKSON CLANING INC  |                 | 70-2065-3    | Š       | 250.0         |         | ŏ              | 104    |        |        |                  |           |             |          |                                         |
| STRCAST 2651/CAT 9                          | ENERSON CURING INC   |                 | 70-2045-4    | A-50    | 754.0         | 1.01    |                |        |        |        |                  |           |             |          |                                         |
| STRCAST 2651/CAT 9                          | CHERSON CLIMING INC  |                 | 70-2065-5    | A-50    | 609 ° 0       | 516     |                |        |        |        |                  |           |             |          | C CHU                                   |
| STYCAST 2651/CAT 9                          | ENERSON CUMINS INC   |                 | 71-2312      | 209     | 2000.0        | •       | 0              | 104    |        |        |                  |           |             |          | 1700                                    |
| 517CAST 2651/CAT 9                          | ENERSON CURING INC   |                 | 71-2312-1    | X0)     | 1500.0        |         |                |        | 566    | 566    |                  |           |             | BAB      | XXUE                                    |
| STYCAST 2762-FT                             | ENERSION CLIMING INC |                 | 71-2691      | ŝ       | 250.0         |         | ð              | 104    |        |        |                  |           | • •         |          | XXUE                                    |
| 517CAST 2782-FT                             | ENERSON CUMUNE INC   |                 | 71-2691-1    | X09     | 1500.0        |         | 0              | /01    |        |        |                  |           |             |          | ××00                                    |
| STWCAST 2762-FT                             | ENERSON CONTROL INC  |                 | 71-2491-2    | ž       | 150.0         |         |                |        | 60 H   | 608    |                  |           | - c         | a C      |                                         |
| STYCAST 2762-FT                             | ENERSON CUNTING INC  |                 | 71-2491-3    | Хġ      | 1000.0        |         |                |        | \$     | 569    |                  |           |             |          | SCXX<br>26XX                            |
| SUMPLEX 18                                  |                      |                 | 71-2690      | A-50    | 773.0         | 518     |                |        |        |        |                  |           |             | ū        | DEFV                                    |
| SUFFLEX 10                                  |                      |                 | 71-2600-1    | À-50    | 762.0         | 514     |                |        |        |        |                  |           |             | Ē        | DFV                                     |
| SUPERBUILE GLASS BEADS                      | AN CO. ST. PAUL      |                 | 70-2031      | š       | 200.0         | 1000    |                | Z      | N 666  | 646    |                  |           | 4           | 86       | XXVI                                    |
| SCHENSKITE GLASS BEADS                      | 3H CO. ST. PAUL      |                 | 70-2031-1    | 60X     | 1000.0        | 00G I   |                | Z      | N 666  | 666    |                  |           | R 13        | 861      | AXX                                     |
| SUPERBUILD GLASS BEADS                      | BH CO. ST. PAUL      |                 | 70-2031-2    | Š       | 200-0         | 1000    |                | z      | N 666  | 666    |                  |           | A L         | 85       | XXVI                                    |
| AT BUS CHANNEL AND SATE                     | HARILTON'S TANDARD   |                 | 71-2300      | Š       | 5000-0        |         | 5              | 10/    |        |        |                  |           | 1 10        | 0.0      | XXOS                                    |
| A DE LE | HAMILIUM STANDARD    |                 | 71-2309-1    | Š       | 5000-0        | ŝ       | 00             | 104    |        |        |                  |           | A L         | ā        | XXOS                                    |
| There are the set of the set                | HARELYON STANDARD    |                 | 71-2309-2    | Š0<br>Š | 1500-0        |         |                |        | 639    | 639    |                  |           | 0 13        | Tio I    | XXOF                                    |
| AVA 81370-114 MIS-3674                      | MARIL TON STANDARD   |                 | 71-2309-3    | Š.      | 3000.0        |         |                |        | 639    | 639    |                  |           | 0 1         | 20       | 30 X X                                  |
| 200 21310-138111-2002                       | CONTRACTOR STANDARD  |                 | 71-2305      | X 00    | 2000-0        |         | 8              | 104    |        |        |                  |           | A 10        | 0 F 0    | XXXX                                    |
| SYSK BISTO-17 TUNESTON                      |                      |                 | T047-T1      |         |               | ·       | 53             | 40/    |        |        |                  |           | A 10        | 5        | ××Q                                     |
| SV3K 81370-18. AMS-4928                     | HAMILTON STANDARD    |                 | 71-2307      |         |               | ~ 4     |                |        |        |        |                  |           | 4      <br> | 6        | XXX                                     |
| SVSK 81970-19A TI ALLOY                     | HANTLTON STANDARD    |                 | 71-275       | ŝ       |               |         |                |        |        |        |                  |           | ⊒:<br>∢ ,   |          | XXII                                    |
| 12-04ETE MSAS                               | HANILTON STANDARD    |                 | 71-2310      | ŝ       |               |         | 20             | 10/    |        |        |                  |           |             | 5 1      |                                         |
| 5V5K 81370-21                               | HANILTON STANDARD    |                 | 71-2310-1    | X V     | 1500.0        |         | 5              |        | 651    | 461    |                  |           |             | บีบี     |                                         |
| SVSK 81370-23A                              | HAMILTON STANDARD    |                 | 71-2306      | ŝŝ      | 5000.0        |         | 00             | 707    | 110    | 100    |                  |           | -<br>-<br>- | มีนี้    |                                         |
| SVSK 81370-23A                              | HAMILTON STANDARD    |                 | 71-2306-1    | COX     | 6800-0        |         | 52             | 707    |        |        |                  |           |             |          |                                         |
| SVSK 81370-30A                              | HAMILTON STANDARD    |                 | 71-2308      | ŝ       | 2000-0        |         | 36             | 407    |        |        |                  |           |             | ū        |                                         |
| SVSK 83370-32A                              | HAMILTON STANDARD    |                 | 71-2299      | ŝ       | AROD. O       | ď       |                | 40/    |        |        |                  |           |             |          | >>>                                     |
| SVSK #1370-5                                | HAMILTON STANDARD    |                 | 71-2298      | XU3     | 2000-0        | ۱       | 52             |        |        |        |                  |           |             |          | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |
| SVSK 82370-5                                | HAMILTON STANDARD    |                 | 71-2296-1    | 20X     | 1500.0        |         | 5              |        | 919    | 618    |                  |           |             | 52       | <                                       |
| SVSK 81370-7                                | HAMILTON STANDARD    |                 | 71-2300      | Ň       | 2000-0        |         | C              | 707    |        |        |                  |           |             |          |                                         |
| SVSK 8137(-7                                | HAMILTON STANDARD    |                 | 1-0052-12    | SOX.    | 1500 0        |         |                | 2      |        |        |                  |           | <br>        |          |                                         |
|                                             |                      |                 | -            | 500     |               |         |                | -      | CC+    | ۲<br>۲ |                  |           |             | 20       | XXX                                     |

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MATERIAL TEST DATA BY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

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| HEGR S DESIGNATION       | MARUF AC TURER        | SPEC.  | TEST RPT NO. | TEST       | TEST    | TEST | 1 du I | NO DF | FLASH       | FIRF PC | TW QUS   | α   | -    | 4 A T L      |   |
|--------------------------|-----------------------|--------|--------------|------------|---------|------|--------|-------|-------------|---------|----------|-----|------|--------------|---|
|                          |                       | THICK. |              | ENVR       | PRESS   | TEMP | ENFR   | REACT | POINT       | PT 01   | 1 ST LOS | s 1 | Ē    | 300          |   |
| SVSK BI370-BA            | HAMILTON STANDARD     |        | 71-2302      | XD9        | 2000-0  |      |        | 00/04 |             |         |          | Ā   | 101  | XXXXX        |   |
| SVSK 61370-8A            | HAHILTON STANDARD     |        | 71-2302-1    | COX        | 1500.0  |      |        |       | 562         | 564     |          | - 0 |      | XXXXX        |   |
| SYLGARD 163              | DON CORNING CORP      |        | 71-2550      | Į          | 785.0   | 510  |        |       |             |         |          | •   | 12   | ADP X X      |   |
| SVLCARD 183              | DON COMING CORP       |        | 71-2550-1    | IVI        | 729.0   | 501  |        |       |             |         |          | -   | 15   | XX404        |   |
| SYLGARD 184              | tion conving corp     | .0750  | 70-2057      | ŝ          | 1500.0  |      | 50     | 00/04 |             |         |          | 4   |      | <b>ADPXX</b> |   |
| SYLCARD 104              | DON CORNING CORP      | .0750  | 70-2057-1    | ×09        | 1500.0  |      |        | 10/10 |             |         |          | -   | 2    | XXDDXX       |   |
| SYLGARD 104              | DON CORNING CORP      |        | 70-2057-10   | Š          | 50.0    |      |        |       | 616         | 616     |          | . C |      | ADPXX        |   |
| the case 1 as            | DOM CORNING CORP      |        | 70-2057-2    | XOS        | 1000.0  |      |        |       | 371         | 371     |          | C   |      | ADPXX        |   |
| SYLGARD 104              | DOM CORNING CORP      |        | 70-2057-3    | Ň          | 50.0    |      |        |       | 414         | 414     |          | 2   | 5    |              |   |
| SVLGARD 100              | DON COMING CORP       |        | 70-2057-4    | XOS        | 100.0   |      |        |       | 397         | 397     |          | 0   |      | ADPXX        | _ |
| SVLCARD 194              | DOW CORNING CORP.     |        | 70-2057-5    | ×8         | 500.0   |      |        |       | 361         | 361     |          | 0   | 5    | ADPXX        |   |
| SYLCARD LON              | DON CONVING CORP      |        | 70-2057-6    | XOS        | 1500.0  |      |        |       | 314         | 314     |          | 0   |      | ADPXX        |   |
| SYLEANED 104             | DON CORNING CORP      |        | 70-2057-7    | Š          | 2000.0  |      |        |       | 234         | 234     |          | 0   | 13   | ADPXX        |   |
| ST GARD 100              | DOK CORNENC CORP      |        | 70-2057-8    | 60 X       | 1000.0  | 39 B |        |       |             |         |          | ٥   | 15   | ADPXX        |   |
| STIGARD 284              | DOW CORNING CORP      |        | 70-2057-9    | ž          | 25.0    |      |        |       | 656         | 696     |          | 0   | 13   | <b>ADPXX</b> |   |
| STRTMET DC RUBBER        |                       |        | 71-2711      | A-50       | 655.0   | 480  |        |       |             |         |          | -   | 15   | DCKXX        |   |
| STATHET IC RUBBER        | **                    |        | 71-2711-i    | A-50       | 671.0   | 488  |        |       |             |         |          | 7   | 151  | DCKXX        |   |
| SWITHET IC RUDDER GLOVE  | CHARLESTON RUDBER CO. |        | 71-2361      | Š          | 500.0   |      | 50     | 00/04 |             |         |          | <   |      | XX4040       |   |
| STATHET IC RUBBER GLOVE  | CHARLESTON RUBBER CO. |        | 71-2361-1    | Š          | 500.0   |      |        | 70/00 |             |         |          | 4   | 07   | XX4040       |   |
| STRITHET IC RUBBER GLOVE | CHARLESTON RUBBER CO. |        | 71-2361-2    | 60X        | 100.0   |      |        |       | 419         | 419     |          | ۵   | 13 ( | POPXX        |   |
| L-1845.                  | PARKER SEAL/LOS ANGLS |        | 69-1566      | Š          | 5.0     |      |        |       | 725         | 787     |          | ۵   | 13 ( | XXDOH:       |   |
|                          | PARKER SEAL/LOS ANGLS |        | 69-1566-1    | ×          | 25.0    |      |        |       | 57 <b>8</b> | 746     |          | 0   | 61   | XXDOH        |   |
|                          | PARKER SEAL/LOS ANGLS | .0750  | 69-1566-10   | žg         | 15 JO.C |      |        | 10/10 |             |         |          | -   | 01   | XX DOH:      |   |
|                          | PARKER SEAL/LOS ANGLS | • 0750 | 69-1566-11   | 60X        | 2000.0  |      |        | 01/04 |             |         |          | -ر  | 0    | XXOOH        |   |
| S417-7                   | PARKER SEAL/LOS ANGLS | •0750  | 69-1566-12   | š          | 2500.0  |      |        | 10/10 |             |         |          | -   | 0    | HDOXX        |   |
| 2417-7                   | PARKER SEAL/LOS ANGLS | .0750  | 69-1566-13   | ž          | 3000-0  |      |        | 01/02 |             |         |          | ۲   | 0    | HUDXX        |   |
| 2417~7                   | PARKER SEAL/LOS ANGLS | -0750  | 69-1566-14   | Š          | 0.00    |      |        | 01/02 |             |         |          | -   |      | HDOXX        |   |
| こん 子供                    | PARKER SEAL/LOS ANGLS | .0750  | 69-1566-15   | XOS        | 4000.0  |      |        | 01/01 |             |         |          | -   | 0    | HDOXX        |   |
| 5417-7                   | PARKER SEAL/LOS ANGLS | .0750  | 69-1566-16   | Š          | 4500.0  |      |        | 01/01 |             |         |          | • • | 22   | XXOOH        |   |
| 2417-7                   | PARKER SEAL/LOS ANGLS | .0750  | 69-1566-17   | X09        | 5000.0  |      |        | 04/04 |             |         |          | -   | 10   | XXOQH.       |   |
| 5417-7                   | PARKER SEAL/LOS ANGLS | •0750  | 69-1566-18   | ŝ          | 4500.0  |      | 200    | 00/04 |             |         |          | 4   | 1    | HDOX)        |   |
| 5417-7                   | PARKER SEAL/LOS ANGLS | •0750  | 69-1566-19   | 60X        | 5000.0  |      | 200    | 01/02 |             |         |          |     | 11   | XXOOH        |   |
| 5417-7                   | PARKER SEAL/LOS ANGLS |        | 69-1566-2    | ×09        | 50.0    |      |        |       | 689         | 732     |          | 0   | 13   | HDOXX        |   |
| 2417-7                   | PARKER SEAL/LOS ANGLS |        | 69-1566-20   | X09        | 6.2     | 1000 |        |       | - 666N      | 066N    |          | œ   | E    | XXODH        |   |
| 5417-7                   | PARKER SEAL/LOS ANGLS |        | 69-1566-3    | Š          | 50.0    |      |        |       | 523         | 523     |          | 9   | 5    | KXOQH:       |   |
| S417-7                   | PARKER SEAL/LOS ANGLS |        | 69-1566-4    | <u>COX</u> | 100.0   |      |        |       | <b>209</b>  | 509     |          | 0   | 13   | XX OGH       |   |
| S417-7                   | PARKER SEAL/LOS ANGLS |        | 69-1566-5    | ŝ          | 560.0   |      |        |       | 440         | 744     |          | 0   | 61   | KX DOH:      |   |
| 5417-7                   | PARKER SEAL/LOS ANGLS |        | 69-1566-6    | XQY        | 1000.1  |      |        |       | 422         | 422     |          | 0   | 13 ( | XXDOH        |   |
| 5417-7                   | PARKER SEAL/LOS ANGLS |        | 69-1566-7    | X0?        | 1500.0  |      |        |       | 39.3        | 393     |          | 0   | 13   | XCOH:        |   |
| <b>S417-7</b>            | PARKER SEAL/LOS ANGLS |        | 69~1566-R    | COX<br>COX | 2000.0  |      |        |       | 393         | 393     |          | 6   | 13   | HC OXX       |   |
| S417-7                   | PARKER SEAL/LOS ANGLS | .0750  | 69-1566-9    | ò          | 1000.0  |      |        | 00/00 |             |         |          | ◄   | 10   | KXOOH:       |   |
| T-63 FELT                |                       |        | 71-2659      | HWH        | 791.0   | 525  |        |       |             |         |          | -   | 5    | DEFXX        |   |
|                          |                       |        | 71-2059-17   | I          | 730.0   | 5    |        |       |             |         |          |     | 151  | <b>UEFXX</b> |   |
| TTZ-4 JANE               | PERMALEL LAPE CUKP    |        | 71-2681      | III        | 802.0   | 542  |        |       |             |         |          | ~   | 15   | BFVXX        |   |

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MATERIAL TEST DATA BY MANUFACTURER S DESIGNATION LS (1F 31 ,12, 72

| MFGR S DESIGNATION | I MANUFACTURER         | SPEC.  | TEST RPT NU. | TEST       | TEST   | TEST IN | O UN D | F FI 25H   | F 1 R F | TW d.jpg  | μ<br>α        | TAH     | بر     |
|--------------------|------------------------|--------|--------------|------------|--------|---------|--------|------------|---------|-----------|---------------|---------|--------|
|                    | 9                      | THICK. |              | ENVR       | PRESS  | TEMP EN | R REAC | T PUINT    | Ъ       | DIST LUSS | -             | 00.0    | ι Ψ    |
| <b>TAPE P-211</b>  | PERMACEL TAPE CORP     |        | 71-2681-1    | HWH        | 795.0  | 540     |        |            |         |           | 1             | 5 C.BF  | VXX    |
| TAPE P-422         | PERMACEL TAPE CORP     |        | 71-2403      | 60 X       | 250.0  |         | 0/00   | ť          |         |           | A L           | 0 F.8C  | NXX    |
| 14PE P-422         | PERMACEL TAPE CORP     |        | 71-2403-1    | ŝ          | 75.0   |         |        | 475        | 476     |           | 0             | 3 580   | XXN    |
| · TAPE 56          | BM CO. ST. PAUL        |        | 70-2172      | X OS       | 1500.0 |         | 01/0   |            |         |           | -             | 020 0   | CDH    |
| TAPE 56            | <b>3M CD. ST. PAUL</b> |        | 70-2172-1    | ×09        | 1000.0 |         |        | 194        | 194     |           | 0             | 3 020   | CDH    |
| <b>TAPE</b> 56     | BM CO. ST. PAUL        |        | 70-2172-2    | 60X        | 1000.0 |         |        | 212        | 212     |           | 0             | 3 02C   | COH    |
| TAPE 56            | 3M CD. ST. PAUL        |        | 70-2172-3    | X09        | 1000.0 | 308     |        | 1          |         |           | <b>1</b><br>C | 5 020   | COH    |
| TAPE 56            | SM CO. ST. PAUL        |        | 71-2487      | A-50       | 824.0  | 519     |        |            |         |           | 1             | 5 020   | CDH    |
| TAPE 56            | BM CO. ST. PAUL        |        | 71-2487-1    | A-50       | 760.0  | 404     |        |            |         |           | 1             | 5 0ZC   | CDH    |
| TAPE 59            | BM CO. ST. PAUL        |        | 70-2175      | XOS        | 1500.0 |         | 01/3   | l          |         |           | -             | 0XC C   | BCK    |
| TAPE 59            | 34 CD. ST. PAUL        |        | 1-6712-07    | Š          | 1000.0 |         |        | 232        | 232     |           | 0             | 3 040   | BCK    |
| TAPS 59            | BH CO. ST. PAUL        |        | 70-2173-10   | 50X        | 50-0   |         |        | 501        | 501     |           | 5             | 3 0YC   | BCK    |
| TAPE 59            | 3% CO. ST. PAUL        |        | 70-2173-11   | Š          | 100.0  |         | •      | 471        | 471     |           | 0             | 3 DYC   | BCK    |
| TAPE 59            | BM CO. ST. PAUL        |        | 70-2173-12   | 60X        | 500.0  |         |        | 416        | 416     |           | 0             | 3 0YC   | BCK    |
| TAPE 59            | <b>BM CD. ST. PAUL</b> |        | 70-2173-13   | Š          | 1000.0 |         |        | 264        | 264     |           | 0             | 3 DYC   | BCK    |
| 74PE 59            | BH CO. ST. PAUL        |        | 70-2173-14   | 60X        | 1500.0 |         |        | 196        | 196     |           | 0             | 3 040   | BCK    |
| TAPE 59            | SM CO. ST. PAUL        |        | 70-2173-15   | SO3        | 2000.0 |         |        | 225        | 275     |           | 0             | 3 DYC   | BCK    |
| TAPE 59            | BN CO. ST. PAUL        |        | 70-2173-16   | COX<br>COX | 3000.0 |         |        | 2 65       | 265     |           | 0             | 5 DYC   | BCK    |
| TAPE 59            | BM CO. ST. PAUL        |        | 70-2173-18   | Š          | 25.0   |         |        | 664        | 664     |           | 0             | 3 040   | BCK    |
| TAPE 59            | BH CO. ST. PAUL        |        | 70-2173-19   | CUX<br>SUX | 50.0   |         |        | 652        | 652     |           | а<br>а        | 3 CYC   | BCK    |
| TAPE 59            | BM CD. ST. PAUL        |        | 70-2173-2    | Š          | 3000.0 |         |        | 223        | 223     |           | 0 1           | 3 DYC   | BCK    |
| 54PE 59            | an co. st. paul        |        | 70-2173-3    | 60 X       | 5000.0 | ž       | 0/10 ( | 1          |         |           | 2             | L DVC   | BCK    |
| TAPE 59.           | BM CD+ ST+ PAUL        |        | 70-2173-4    | Š          | 0*000+ | ŵ       | 0/10 0 | -          |         |           | 2 1           | 1 070   | BCK    |
| TAPE 59            | SA CO. ST. PAUL        |        | 70-2173-5    | žg         | 2000.0 | ž       | 01/0   | -          |         |           | 2 1           | L DVC   | ECK.   |
| TAME 55            | 3M CO. ST. PAUL        |        | 70-2173-6    | ŝ          | 1000.0 | ñ       | 01/0   | -          |         |           | 2 1           | I DYC   | BCK    |
| TAPE 59            | SA CO. ST. PAUL        |        | 70-2173-7    | 80X        | 500.0  | š       | 01/0   | -          |         |           | 1 2           | 1 0%    | BCK    |
| TAPE 59            | 3M CO. ST. PAUL        |        | 70-2173-8    | ğ          | 1000.0 |         | 01/0   |            |         |           | F             | 0 070   | BCK    |
| TA76 59            | BN CO+ ST+ PAUL        | •      | 70-2173-9    | 60X        | 500.0  |         | 0/00   | <b>3</b> . |         |           |               | 0 010   | BCK    |
| TAPE 59            | 36 CO. ST. PAUL        |        | 71-2478      | A-50       | 734.0  | 474     |        |            |         |           | 1 1           | 5 DYC   | BCK    |
| TAPE 59            | SH CO- ST. PAUL        |        | 71-2478-1    | A-5C       | 733.0  | 494     |        |            |         |           | -             | 5 040   | BCK    |
| 1446 60            | 3H CO. ST. PAUL        |        | 71-2409      | Š          | 250.0  |         | 0/00   | t          |         |           | <b>V</b>      | 0 020   | Š      |
| 210E 60            | SH CO. ST. PAUL        |        | 71-2409-1    | 60 X       | 75.0   |         |        | 542        | 542     |           | 0             | 3 DZC   | OCK    |
| 1146 61            | 3H CO. ST. PAUL        |        | 71-2251      | A-50       | 779.0  | 497     |        |            |         |           | 1<br>         | 5 020   | Š      |
| TAPE 61            | 3M CO. ST. PAUL        |        | 71-2261-1    | A-50       | R28.3  | 516     |        |            |         |           | -             | 5 DZC   | ž      |
| TAPE 67            | 3M CO. ST. PAUL        |        | 71-2529      | X.E        | 754.0  | 49.8    |        |            |         |           | T L           | 5 E08   | IG I A |
| TAPE 67            | 3M CD. ST. PAUL        |        | 71-2529-1    | IXX        | 778.0  | ×07     |        |            |         |           | -             | 5 E & B | GIA    |
| TAPE 74            | 3M CO. ST. PAUL        |        | 71-2445      | A-50       | 725.0  | 500     |        |            |         |           | 1 1           | 5 EBC   | BXX    |
| TAPE 74            | 3M CO. ST. PAUL        |        | 71-2445-1    | A-50       | 591.0  | 464     |        |            |         |           | Ì             | 5 680   | BXX    |
| TAPE 74            | 3H CO. ST. PAUL        |        | 71-2530      | Ĭ          | 801.0  | 511     |        |            |         |           | ۲<br>۲        | 5 EBC   | 18 X X |
| TAPE 74            | 3M CO. ST. PAUL        |        | 71-2530-1    | IXX        | 817.0  | 514     |        |            |         |           | -             | 5 Eac   | 3XX    |
| TAPE 74            | BM CO. ST. PAUL        |        | 71-2686      | INT        | 773.0  | 698     |        |            |         |           | 1             | 5 EBC   | :8XX   |
| TAPE 74            | 3M CO. ST. PAUL        |        | 71-2686-1    | INN        | 789.0  | 541     |        |            |         |           | -             | 5 EBC   | BXX    |
| TERLON ( 256LASS P | ILLED DIXON CORP       |        | 10-78        | ŝ          | 6.2    | 1000    |        | 6 6 6 N    | 000X    |           | 7             | 3 FJC   | PIA    |
| TEFLON (.256LASS P | ILLEDIDIXON CORP       |        | I 0-78       | 60×        | 6.2    | 1000    |        | 666N       | 666N    |           | ת<br>א        | 3 FJC   | PIA    |

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MATERIAL TEST CATA BY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

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| WEEK S DESIGNATION MANUFACTURER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | THICK.      | TEST RPT NO | . TEST<br>ENVR | PRESS  | TEMP EI    | 4PT NU    | CT POI   | SH FIR<br>VT PT | E PR(1P  | LOSS | ¢ ⊷        | ¥0                   | 1F<br>06 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|--------|------------|-----------|----------|-----------------|----------|------|------------|----------------------|----------|
| TEFLON 1.25GLASS FILLED NOTION CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | 10-78-1     | ×09            | 16.5   | 1000       |           | 96       | 1 N99           | •        |      | 7          | 3 F.                 | CP14     |
| TEFLON 1.25GLASS FILLEDULXON CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 10-73-1     | č              | 16.5   | 1000       |           | 96       | 1 N99           | 0        |      | ~          | 5                    | CPIN     |
| TEPLON (.296LASS FILLED)01X0M CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •0750       | 70-2099     | X OB           | 1500.0 |            | 00<br>00  | 40       |                 |          |      | 4          | 1<br>Q               | CP I J   |
| TEFLON ("25GLASS FILLEDIDIXON CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 40150 ×     | 70-2099-1   | 60%            | 1500.0 |            | 200       | 10       |                 |          |      | 4          | A<br>D<br>X<br>O     | CPIA     |
| TEPLON ("25GLASS FILLED)BIXON CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | 2-5692-52   | Š              | 1000-0 |            |           | 8        | 6 7P            | 4        |      | 0          | ы<br>М               | CPIA     |
| TEPLON (.25GLASS FILLEDIVIZON CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -<br>-<br>- | 70-2099-3   | XQS            | 1000.0 |            |           | 11       | 77 E            | æ        |      | 0          | 3 OK                 | CPIA     |
| TEPLON ( "29GLASS FILLEDIDIXON CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •0150       | 10-2099-3   | Ň              | 1500-0 | •••        | 20<br>00/ | 40       |                 |          |      | 4          | ž                    | CPIA     |
| TEFLAW 1+25GLASS FILLEDILIOUTO NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | •0750       | 10-78-10    | <b>X</b> 83    | 1500.0 | 20         | 20 01     | 01       |                 |          |      | 0          | L FJ                 | CPIA     |
| TERION 1-25GLASS FILLEDILIQUID NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0750       | 10-76-11    | ×8             | 2000-0 | š          | 10 00     | 10       |                 |          |      | 0          | L FJ                 | CPIA     |
| TEPLON 1.256LASS FILLEDILIQUID NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .0750       | 10-78-12    | 60X            | 2500.0 | 2          | 10 00     | 01       |                 |          |      | 0          | l FJ                 | CPIA     |
| TER.ON ("ZGLASS FILLED'N BOULD NITRDEEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0750       | 10-78-13    | XQS            | 3000.0 | ž          | 10 00     | 02       |                 |          |      | 10         | L FJ                 | CPIA     |
| TERLEN (.256LASS FILLEDILIQUED NETROGEN CORP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | •0150       | 1-2-01      | ×03            | 3500.0 | 20         | 3000      | *0       |                 |          |      | 10         | L FJ                 | CPIA     |
| TERCON C.256LASS FILLEDILIQUED NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .0750       | 10-78-15    | ž              | 4000-0 | š          | 01/00     | 10       |                 |          |      | 2          | I FJ                 | CPI      |
| TEFLOW (.256LASS FULLED)LIQUED NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0150       | 10-79-2     | ¥09            | 2500.C |            | 00        | 04       |                 |          |      | <b>A</b>   | 0 53                 | CPIA     |
| TERLON : "ZGELASS FELLED'N TOUFD NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | •0150       |             | Š              | 3000.0 |            | 10        | 10       |                 |          |      | 0          | 3                    | CPIA     |
| TEFLON (.25GLASS FILLED)LIQUID NETROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | .0750       | 10-18-4     | X09            | 3500.0 |            | 50        | 01       |                 |          |      | 0          | 0 5.                 | CPIA     |
| TEPLON (.256LASS FILLEDM. TOUTD HITMOGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -0750       | 10-78-5     | Š              | 4000.0 |            | 10        | 03       |                 |          |      | 0          | 0 53                 | C b I T  |
| TEPLON 1-25GLASS FILLED'LIOUID NITHOGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | • 0750      | 10-78-6     | Š              | 4500.0 |            | 10        | 02       |                 |          |      | 0          | 50                   | CPIA     |
| TERICA ( 256LASS FILLED)LIQUID MITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -0750       | 10-78-7     | ×99            | 5000.0 |            | 10        | 02       |                 |          |      | 0          | 0 53                 | CPIN     |
| TEFLEN (-256LASS FILLED)LIQUID NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | •0150       | 8-84-01     | XQL            | 500.0  | ž          | 20 05     | 02       |                 |          |      | 0          | l FJ                 | CPIA     |
| TEPLON (.25GLASS FILLED) LOUID MITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | •0750       | 10-70-9     | Š              | 1000.0 | ž          | 10 00     | 02       |                 |          |      | 0          | l FJ                 | CP I     |
| TEFLEN (-ZSELASS FILLEDILIQUID HITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             | 70-1923     | X09            | 1500.0 |            | è         | 40       |                 |          |      | 4          | 0 51                 | CP N     |
| TEALOR ( "ZSGLASS FILLED) LIQUED NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 70-1923     | ž              | 1500.0 | š          | 8         | 04       |                 |          |      | 4 1        | 1 5                  | CPIN     |
| TEFLOR (.25GLASS FILLED)LIQUED NITROGEN CORP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | 70-1923     | XQS            | 1500.0 |            | 200<br>00 | 5        |                 |          |      | -<br>-     | ľ Ľ                  | CPLA     |
| TEFLOR ("ZSGLASS FILLED'N IGUED NITROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | 70-1923     | 8<br>8         | 1500.0 |            | 8         | 04       |                 |          |      | 4          | O FJ                 | CP I A   |
| TERIOR (*256LASS FILLED)LIQUE HEIROGEN CORP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | •0150       | 70-1923-1   | X09            | 1500.0 | i          | 200       | 10       |                 |          |      | <<br><     | 0                    | CPIA     |
| JERLER (-254LAS) FILLED LIUED HINDER UCKP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0410*       | 2-6261-02   | XOS            | 1000.0 | 21         |           | 40       |                 |          |      | ₩.         | <u> </u>             |          |
| ACTION ( CONTASS FILL CULLINGIA NUMBER CULL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0610.       | 70-1923-3   | COX            | 1500.0 | SC . SC    | 01/0      | 03       |                 |          |      |            | Ē                    | CPIA     |
| TETLER (-ZBELASS FILLED ALIQUED ALIGUED ALIGNER CORP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 4-6261-01   | 0 5 - V        | 802°0  | 526        |           |          |                 |          |      | - 1<br>- 1 | 2.<br>2.             | CPIS     |
| THE THE TOTAL SO INCLUDE TOTAL TOTAL TOTAL TOTAL SOLUTION IN THE PARTY SOLUTION SOLUTIAN S |             |             |                |        | 5          |           | 0        | •               |          |      | - 4        |                      |          |
| TENER (VIRGIN) CADILLAC PLASTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -0750       | 10-41       |                | 0.0004 |            | 00        | 06 0     | 0               | _        |      |            | 53<br>52<br>52<br>52 |          |
| TEPLON (VINGIN) CADILLAC PLASTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •0150       | 10-41-1     | i g            | 4500 0 |            | 10        | 40       |                 |          |      | ( C        | 50                   |          |
| TEFLON (VINGIN) CADILLAC PLASTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -0750       | 10-41-2     | GOX            | 5000.0 | <b>u</b> . | /00 00/   | 40       |                 |          |      | 4          | 5                    | CNXX     |
| TEALTH (VIRGIN) CABILLAC PLASTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | I0-41-3     | Š              | 16.5   | 1000       |           | 66N      | 66N 6           | IJ       |      | 7          | л<br>Б<br>м          | CNXX     |
| YERLON (VIRGIN) CADILLAC PLASTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 10-41-4     | COX            | 1000.0 | 735        |           |          |                 |          |      | 0          | I<br>U<br>v          | CNXX     |
| TEPLON (VIRGIN) CADILLAC PLASTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 10-41-5     | ×03            | 1000.0 |            |           | 5        | 6 73            | <b>ب</b> |      | 0          | 3 6                  | CNXX     |
| TEFLON ANS 3651C HOKE INC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | 71-2842     | X 09           | 5000.0 | •••        | 200 09    | 40       |                 |          |      | A 1        | 1 Å?                 | č        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 71-2842-1   | Š              | 3000-0 |            | 22        | 10       |                 |          |      | 0          | 2¥ 0                 | 202      |
| TERUCH AND JOJIC THAT JAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | 7-7487-1/   |                |        |            | 38        | 10       |                 |          |      | 0          | 0 AZ                 |          |
| TERLOR AND 20716 THAT INC<br>MEETING EED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             | 11-2842-3   |                | 1-00cT |            | B         | <b>f</b> |                 |          |      | ~ .<br>< . |                      |          |
| TERT AN FEP FAIL ON POINT CONTINUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | 70-1962-1   |                | 771 0  | 202        |           |          |                 |          |      |            | 25                   |          |
| TEFLON FEP E.I. DUPONT CO. INC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 70-1962-2   | A-50           | 739.0  | 1004       |           | ſ        |                 |          |      |            | 32                   | < 20 a   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |             | ;              |        |            |           |          |                 |          |      | •          | 3                    |          |

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| MFGR S DESIGNATIC    | Z              | MANUF ACT wER                      | SPEC.<br>THICK. | TEST RPT NO. | ENVR       | TEST<br>PRESS | TEAP | I NP T<br>ENER | NU DF<br>REACT | FLASH<br>POINT | FIRE PR()P<br>PT DIST | HT<br>LOSS | 4 <b>-</b>  | MATL<br>CUDE |
|----------------------|----------------|------------------------------------|-----------------|--------------|------------|---------------|------|----------------|----------------|----------------|-----------------------|------------|-------------|--------------|
| TEPLON FEP           |                | E.I. DUPONT CD. INC.               |                 | 70-1462-3    | A-50       | 730.0         | 502  |                |                |                |                       |            | 1           | DUBOX        |
| TEEL IN CED          |                | F.T. NUMMAT CO. INC.               |                 | 70-1962-6    | IWW<br>I   | RIROO         | 567  |                |                |                |                       |            | 1 15        | 0080X        |
| TERLON FEP           |                | E.I. DUPONT CO. INC.               |                 | 70-1962-5    | INT        | 790.0         | 506  |                |                |                |                       |            | T 15        | DUBOX        |
| THEFT ON FRICTION 1  | ASHER          | VICTOR FOULPMENT CO.               |                 | 71-2776-1    | COX        | 2500-0        |      |                | 02/02          |                |                       |            | 50          | CHCNX        |
| TEXT ON FRICTION     | ASHFR          | VICTOR FOULDMENT CO.               |                 | 71-2776-2    | XOS        | 2000-0        |      |                | 10/10          |                |                       |            | 01 0        | CHCNX        |
|                      | ASHER          | VICTOR FOULDMENT CO.               |                 | 71-2776-3    | GOX        | 1500.0        |      |                | 01/02          |                |                       |            | 01 0        | CHCNX        |
| TER ON FRICTION      | VASHER         | VICTOR EQUIPMENT CO-               |                 | 71-2776-4    | 300        | 1000.0        |      |                | 00/04          |                |                       |            | A 10        | CHCNX        |
|                      | ISS FAR        | DONCE FIRES CORP.                  |                 | 71-2406      | CDX<br>CDX | 250-0         |      |                | 00/07          |                |                       |            | A 10        | BFCNI        |
| TER ON INPOSE GL     | ASS FAB        | DODGE FIBERS CORP.                 |                 | 71-2406-1    | ð          | 75.0          |      |                |                | 82 B           | R28                   |            | 0 13        | BFCNI        |
| TEFLON IMPREG GLI    | ASS FAB        | DODGE FIBERS CORP.                 |                 | 71-2406-10   | 60X        | 50.0          | 1000 |                | -              | 6667           | 066N                  |            | ET          | BFCNI        |
| JER ON INPRES CLI    | LSS FAB        | DODGE FIBERS CORP.                 |                 | 71-2406-11   | XQS        | 100.0         |      |                |                | 773            | 573                   |            | 0           | BFCNI        |
| TEFLOW INPACT GL     | ASS FAR        | DODGE FIBERS CORP.                 |                 | 71-2405-12   | 20X        | 500.0         |      |                |                | 734            | 734                   |            | 0           | <b>BFCNI</b> |
| VERICAL INPRES GLI   | ASS FAB        | DODGE FIBERS CORF.                 |                 | 71-2406-13   | ×09        | 1000.0        |      |                |                | 684            | 684                   |            | er<br>O     | BFCNI        |
| VEFLON INPACE SLI    | ASS FAB        | DODGE FIBERS CORP.                 |                 | 71-2406-14   | GOX        | 1500.0        |      |                |                | 575            | 675                   |            | EL O        | BFCNI        |
| TEPLON INPREG GLI    | <b>USS FAB</b> | DODGE FIBERS CORP.                 |                 | 71-2406-15   | ž          | 2000.0        |      |                |                | 650            | 650                   |            | 0           | BFCNI        |
| TEFLON INPRES GLI    | <b>NSS FAB</b> | DODGE FIBERS CORP.                 |                 | 71-2406-16   | 50X        | 5000.0        |      | 50             | 00/07          |                |                       |            | A 11        | BFCNI        |
| TEPLON INPRES GUI    | ASS FAB        | DODGE FIBERS CORP.                 |                 | 71-2406-2    | Š          | 2500.0        |      |                | 10/10          |                |                       |            | 1 10        | BFCNI        |
| TEPLON INPRES GLI    | <b>ASS FAB</b> | DODGE FIBERS CORP.                 |                 | 71-2406-3    | X09        | 1500.0        |      |                | 20/10          |                |                       |            | 1 10        | BFCNI        |
| TER ON THPREG GLI    | ASS FAB        | DODGE FIBERS CORP.                 |                 | 71-2406-4    | Š          | 1000.0        |      |                | 10/10          |                |                       |            | 1 10        | BFCNJ        |
| TEPLON INPRES CLI    | ASS FAB        | DCDGE FIBERS CORP.                 |                 | 71-2406-5    | GOX        | 500.0         |      |                | 00/04          |                |                       |            |             | BFCN         |
| TERLON INPACE GI     | ASS FAB        | DODGE FIBERS CORP.                 |                 | 71-2406-8    | Š          | 25.0          | 1000 |                |                | 6662           | 566N                  |            | -           | BFCNI        |
| TENDER INDUCE CT     | ASS FAB        | DOGGE FIBERS CORP.                 |                 | 71-2406-9    | COX        | 50.0          |      | 1              |                | 788            | 788                   |            |             | BFCNI        |
| ISON BANTT. NOT WERE | E 919          | PARKER-HANNIFIN CONP               |                 | 71-2947      | ŝ          | 2500.0        |      | 20             | 00/07          |                |                       |            |             | EFCO         |
| THILDN LTNER HOSI    | E 919          | PARKER-MANNIFIN CORP               |                 | 1-2462-12    | 20X        | 2000-0        |      | 20             | 10/00          |                |                       |            | 4 ·         | EFCO         |
| TERLON LINER HOSI    | E 919          | PARKER-HANNIFIN CORP               |                 | 71-2547-2    | Ň          | 1500.0        |      | 20             | 10/00          |                |                       |            | = :<br>< :  |              |
| TEPLON LINER MOSI    | E 919          | PARKER-HANNIFIN CORP               |                 | 71-2947-3    | 20X        | 2500.0        |      |                | 10/10          |                |                       |            |             |              |
| TEALON LINER HOSI    | E 919          | PARKER-HANNIFIN CURP               |                 |              | ŝ          | 2500.0        |      |                | 50/10          |                |                       |            |             |              |
| TEFLON LINER HOS     | E 919          | PARTER-HARMIFIN CORT               |                 | C-1462-11    | xns        | 0-0051        |      | 6              | *0/00          |                |                       |            |             |              |
| TEPLON SEATS + SI    | EALS           | JARESOURT CORP                     |                 | 11-2854      | ŝ          | 0.00-2        |      | 20             |                |                |                       |            | •           |              |
| TAPATAN SEATS + SI   | EALS<br>Fair   | JANESOURY CORP.<br>JANESOURY CORP. |                 | 71-2834-1    | ŝ          | 0-0002        |      |                | 10/10          |                |                       |            |             |              |
|                      |                |                                    |                 | 71-2836-3    | XUS        | 1500-0        |      |                | 00/04          |                |                       |            | A 10        | CHCO         |
| TERLORY VAPE         | Ì              |                                    |                 | 70-1958      | A-50       | 723.0         | 486  |                |                |                |                       |            | -           | DYCN         |
| TEPL OF TAPE         |                |                                    |                 | 70-1958-1    | A-50       | 754.0         | 515  |                |                |                |                       |            | T 19        | DVCN         |
| TEFLON TAPE          |                | DODLE INDUSTRIES.INC.              |                 | 71-2485      | A-50       | 756.C         | \$00 |                |                |                |                       |            | ⊒<br>⊢      | DACN)        |
| TEFLON TAPE          |                | DODGE INDUSTRIES.INC.              |                 | 71-2485-1    | A-50       | 532.0         | 451  |                |                |                |                       |            | F           | DYCNU        |
| TEPLON TAPE          |                | DEDGE INDUSTRIES-INC.              |                 | 71-2483-2    | A-50       | 801.0         | 511  |                |                |                |                       |            |             | NOACH!       |
| TEFLON TAPE          |                | DODGE INDUSTRIES. INC.             |                 | 71-2485-3    | A-50       | 746.0         | 210  |                |                |                |                       |            |             | INDACINO A   |
|                      |                | DEDGE INDUSTRIES+INC+              |                 | 71-2469-4    | A-50       | 0.141         | 074  |                |                |                | 0001                  |            |             |              |
| TEFLOW TFE           |                | E-I- DUPON CD-+INC-                |                 | 68-1106      | COX        |               | 1000 |                |                | 845            | 666N                  |            | -<br>-<br>- |              |
| TEFLON TFE           |                | E+I+ DUPDHT CO+INC+                |                 | 68-1106-1    |            | 22°0          | 1000 |                |                | 827            | 666N                  |            |             |              |
|                      |                | E                                  |                 | 68-1106-2    |            | 0.05          |      |                |                | 524            | 745                   |            | 50          |              |
|                      |                | E-I- UJPUNI CU-INU-                |                 | C-0011-90    | X N N      | 0.000         |      |                |                |                | 101                   |            |             |              |
| TEH.CM 1Ht           |                | E+1 - UUPUN' LU++INL+              |                 |              | 1-1 ×      | 100.001       |      |                | :              | 20             | ,                     |            | -           |              |

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MATERIAL TEST DATA RY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

| NFGR S DESIGNATION                         | MANUFACTURER                                           | SPEC.<br>THICK. | TEST RPT NO.           | TEST        | TEST<br>PRFSS | TENP E | NER | HD DF         | FLASH F<br>PUINT 5 | FIRF 9<br>9T D | RC,P WT | α                | ы<br>Т<br>т                     | 11L<br>30E   |
|--------------------------------------------|--------------------------------------------------------|-----------------|------------------------|-------------|---------------|--------|-----|---------------|--------------------|----------------|---------|------------------|---------------------------------|--------------|
| TEFLON TFE                                 | E.I. DUPONT CO. INC.                                   |                 | 68-1106-5              | ХOЭ         | 500.0         |        |     |               | 712                | 712            |         | C                | 13 DI                           | CNXX         |
| TEFLON TEE                                 | E.I. DUPONT COINC.                                     |                 | 68-1106-6              | 60 X        | 1000-0        |        |     |               | 699                | 694            |         | C                |                                 | XXNU         |
| TEPLON TFE                                 | E-I - DUPONT CO - INC -                                |                 | 68-1106-7              | ŝ           | 1500.0        |        |     |               | 69 2               | 692            |         | 6                |                                 | XXNC         |
| TEFLON TPE                                 | E+1 - DUPONT CO. INC.                                  |                 | 68-1106-R              | COX<br>COX  | 2000.0        |        |     |               | 718                | 719            |         | -                |                                 | CNXX         |
| TEFLON TFE                                 | E+I + DUPONT CD++INC+                                  |                 | 70-IV. J               | A-50        | 347.0         | 450    |     |               |                    |                |         | -                | 15 0                            | CNXX         |
| TEFLON TPE                                 | E.I. DUPONT CO. INC.                                   |                 | 70-1959-1              | A-50        | 758.0         | 502    |     |               |                    |                |         | -                | 15 01                           | XXXUX        |
| TERLON TFE                                 | E.I. WPONT CO., INC.                                   |                 | 70-1959-2              | A-50        | 771.0         | 502    |     |               |                    |                |         | •                | 15 0                            | CNXX         |
| TEFLON TFE                                 | E-I- DUPONT COINC-                                     |                 | 70-1959-3              | l i i i i   | 761.0         | 500    |     |               |                    |                |         | -                | 15 0                            | CUXX         |
| TERLON TFE                                 | E+1. DUPONT CO.+INC.                                   |                 | 70-1959-4              | INE         | 767.0         | 504    |     |               |                    |                |         | <b>}</b>         | Ö<br>SI                         | KCNXX        |
| TEFLOW TFE                                 | E.I. DUPONT CD., INC.                                  |                 | 70-1974                | A-50        | 202+0         | 333    |     |               |                    |                |         | -                | 15 DI                           | JCNXX        |
| TERLON TFE                                 | E.I. DUPONT CO., INC.                                  |                 | 1-+161-01              | A-50        | 786.0         | 499    |     |               |                    |                |         | ۲                | 15 0                            | JCNXX        |
|                                            | E.I. DUPUNT CO. INC.                                   |                 | 70-1974-2              | A-50        | 771.0         | 200    |     |               |                    |                |         | F                | 15 01                           | JCNXX        |
| TERLON THE                                 | E.I. UNPONT CO. INC.                                   |                 | E-+161-01              | A-50        | 748.0         | 494    |     |               |                    |                |         |                  | 15                              | XXXQ         |
|                                            |                                                        |                 | 67-0146                | 20X         | 1027.0        |        |     |               | 596                | 596            |         | 0                |                                 | X COXX       |
| TEALON ITE ANS-3051<br>TEALON TEE ANS-3451 |                                                        |                 | 67-0146-1              |             | 1087.0        |        |     |               | 5 H C              | 5 N 1          |         | c (              |                                 |              |
|                                            |                                                        |                 |                        |             | 0.0111        |        |     |               |                    |                |         | 2 4              | 50                              |              |
|                                            | MB POMMEY                                              | 0350.           | 01-01-01-0-02          | ŝ           |               |        | 203 | 20100         |                    | 110            |         | ລ -              | 50<br>1:                        |              |
| TERION TE MIN-2451                         | AND SUMMER                                             | 0210.           | 70-2091-1              |             |               |        |     | 10/00         |                    |                |         | 4 4              |                                 |              |
| TEELON TEE ANS-2651                        | ALL DOWNEY                                             |                 | 70-2001-2              |             |               |        |     |               | 782                | 782            |         | 4 د              |                                 |              |
|                                            | KK TMSULFCTRD CORP                                     |                 | 70-2030                | ŝ           | 1500.0        |        | 50  | 20104         | 301                | 301            |         | • د              | 5ú<br>1:                        |              |
| TEFLON TFE HEAT SHAIN                      | IK INSULECTRO CORP                                     |                 | 70-2030-1              | , x 09      | 1500-0        |        | 2   | 10/06         |                    |                |         | (                | 1<br>2<br>2<br>2<br>2<br>2<br>2 |              |
| TERLON THE HEAT SHRIP                      | HK INSULECTRO CORP                                     |                 | 70-2030-2              | ð           | 500.0         |        |     |               | 74]                | 141            |         | 5                | 13<br>13                        | TCN X X      |
| TEFLON TFE HEAT SHAD                       | M INSULECTRO CORP                                      |                 | 70-2030-3              | KO9         | 1000.0        |        |     |               | 781                | 181            |         | 0                | ц<br>Па                         | <b>HCNXX</b> |
| LEPLON THE RESIN 79                        | E-I DUPONT CO. INC.                                    |                 | 70-1994                | XOS         | 1500.0        |        | 50  | 20/04         |                    |                |         | ۹                | 11 0                            | KCNXX        |
| TEFLON TFE-RESTN 79                        | E.I. DUPONT CO. INC.                                   |                 | 70-1994                | XOS         | 1500.0        |        | -   | <b>40/0</b> 0 |                    |                |         | •                | 10 Di                           | KCNXX        |
| TERLON THE RESIN 79                        | E.I. DUPONT CO INC.                                    |                 | 1-++66102              | Š           | 1500.0        |        |     |               | 599                | 5 99           |         | ۵                | 13 0                            | XXNOX        |
| TERLOW TFE-9-10 WHITH                      | SPARTA MANUFACTORING CO                                |                 | 71-2699                | 60X         | 6500.0        |        | 50  | 20/04         |                    |                |         | 4                | 11                              | CNXX         |
|                                            | E SPARTA MANUFACTORING CO                              |                 | 71-2699-1              | Š           | 6500.0        |        | -   | 10/10         |                    |                |         | ٥                | 10 01                           | CNXX         |
| TERLON IFE-9-10 MMIN                       | E SPAKIA RAMUFACIURING CU<br>E CEARTA MAMICATTORING CO |                 | 71-2699-2              |             | 5000.0        |        | ~`  | 10/10         |                    |                |         | 00               |                                 |              |
|                                            |                                                        |                 | 71-2070                |             | 0.004         | 503    |     | 10.10         |                    |                |         | <b>→</b> ⊢       |                                 |              |
| TEFLON 3651                                |                                                        |                 | 71-2279-1              |             | 0.058         | 511    |     |               |                    |                |         | - 8              | 52                              | XXNO         |
| TEFLONI .18 GLASS FILL                     | EDIJANESOURY COMP                                      |                 | 71-2033                | COX         | 2500.0        | •      | 50  | 20/04         |                    |                |         | • •              | រប៉<br>រជ                       | 1COFW        |
| TEPLON( .18 GLASS FILI                     | LED)JAMESBURY CORP                                     |                 | 71-2833-1              | žS          | 2500.0        |        | -   | 10/10         |                    |                |         | ۵                | 10 CI                           | <b>ICOFW</b> |
| TEFLOW                                     | ED) JAMESBURY CORP                                     |                 | 71-2833-2              | 601         | 2000.0        |        | -   | 10/10         |                    |                |         | ۵                | 10<br>10                        | 1C OF W      |
| TER.ON 18 GLASS FILL                       | LED) JANESBURY CORP                                    |                 | 71-2833-3              | X OS        | 1500.0        |        | -   | 00/04         |                    |                |         | ∢                | 10<br>10                        | ±COF¥        |
| TEFLON-GLASS FILLED                        |                                                        |                 | 71-2424                | L<br>O<br>X | 14.7          |        | 20  | 90/00         |                    |                |         | ₹.               | 10<br>10                        | CPIA         |
| TEFLUM-GLASS FILLED                        |                                                        |                 | 1-5424-1               | Š           | 14.7          |        |     | 00/04         |                    |                |         | ۹.               | 4.<br>9.                        |              |
| TER CALCINE ACC FILLED                     |                                                        |                 | 71-2424-5<br>71-2424-2 | Y ng        | 0.0001        | •      |     | +0/00         |                    |                |         | 4 4              | í u<br>T                        |              |
| TEEL UNIVERSITY FILE                       | ATTAC CARP                                             |                 | 70-1021                |             | 1500.0        | •      | 202 | 40/00         |                    |                |         | ۹ <              | гu<br>Т                         |              |
| TEFLON-GLASS FILLED                        | DIXON CORP                                             |                 | 10-1921                | نې<br>ورې   | 1500.0        |        | ?   | 01/02         |                    |                |         | [ <del>  -</del> | . 4<br>191                      |              |
| TEFLON-GLASS FILLED                        | DIXIN CORP                                             | • 0050          | 70-1921-1              | COX         | 1500.0        |        | ~   | 40/00         |                    |                |         | ۷                | 10<br>10                        | ICPIA        |

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MATERIAL TEST DATA BY MAMUFACTURER S DESIGNATION AS DF 31 JAN 72

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MATERIAL FEST DATA BY MANUFACTURER S ULSIGNATION AS DF 31 JAN 72

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| MFCE S DESTCHATION      | MANUFACTURER          | SPEC.  | TEST RPT NO. | TEST        | TEST                                                                                             | TEST | 1 3 W J | NO OF          | FLASH    | IRE PR | ж<br>40 | T<br>R        | <b>ال</b><br>بہ | ATL            |
|-------------------------|-----------------------|--------|--------------|-------------|--------------------------------------------------------------------------------------------------|------|---------|----------------|----------|--------|---------|---------------|-----------------|----------------|
|                         |                       | THICK. |              | ENVR        | PRESS                                                                                            | TEMP | ENLR    | REACT 4        | LNIO     | 1 01   | ST LO   | SS I          | ⊳<br>►          | 00E            |
|                         |                       |        |              | ~~~~        | 0 0000                                                                                           |      | 0       | 707 00         |          |        |         | •             |                 |                |
|                         |                       |        | 11-2720      | 8           | 0.000                                                                                            |      | 2       |                |          |        |         |               |                 | LUCINE C       |
| THE / WALLON SANDWICH   |                       |        | 1-0062-11    |             | 0.0000                                                                                           |      | 20      |                |          |        |         | 2 3           |                 |                |
| THE/WYLON SAMON ICH     |                       |        |              | ŝ           | 2000 D                                                                                           |      |         |                |          |        |         | • 3           |                 |                |
|                         |                       |        | 6-0-67-11    | 202         | 0°000                                                                                            | 1    |         | 10/10          |          |        |         | . •           |                 |                |
| TFE/TETRAETCH           | DUPONT/N.L. GORE      |        | 71-2605      | A-50        | 0*:65                                                                                            | ŝ    |         |                |          |        |         | - 1           |                 |                |
| THE/JETRAETCH           | DUPONT/N.C. GORE      |        | 71-2605-1    | A-50        | 746.0                                                                                            | 515  |         |                |          |        |         |               | <u>_</u>        | JCNXX          |
| TH-1167 SILICONE RUBBER | I SARGENT INDUSTRIES  |        | 71-2252      | ŝ           | 100.0                                                                                            |      |         |                | 571      | 571    |         | G             | 13              | POP XX         |
| THEFT STI SCAFE BURGE   | SARCENT INDUSTRIES    |        | 71-2252-1    | Š           | 500.0                                                                                            |      | Š       | 40/00          |          |        |         | <             | 11 0            | POPXX          |
| THE ILS STATEME ALADER  | CARCENT IS DUSTRIES   |        | 71-2252-2    | Š           | 500.0                                                                                            |      |         | 40/00          |          |        |         | <             | 10              | POP XX         |
|                         | CAST METALS. THE.     |        | 71-2280      | COX<br>SO   | 5000.0                                                                                           |      |         | 00/04          |          |        |         | -             | 10 01           | TMTXX          |
|                         | CDACT PETAL S. INC.   |        | 71-2280-1    | X           | 6800.0                                                                                           |      |         | 40/00          |          |        |         | <             | 10              | TMTXA          |
|                         | ESACTIVE NETALS INC   |        | 10-1044      | 205         | 1500.0                                                                                           |      | 50      | 40/00          |          |        |         | <             | 11 0            | NCNXX          |
|                         | SEALTIVE NETALS (NC   |        | 7-1044       | Š           | 1500.0                                                                                           |      |         | <b>20</b> , 14 |          |        |         | <             | 201             | NCNXX          |
|                         |                       |        | 71-1044-1    | A-50        | 801-0                                                                                            | 507  |         |                |          |        |         |               | 15              | FMTXX          |
|                         | SEACTIVE RETAILS INC  |        | 70-1944-2    | A-50        | 805.0                                                                                            | 478  |         |                |          |        |         | -             | 151             | FMTXX          |
|                         | DEALTINE DETAIS INC   |        | 70-1944-3    | A-50        | 322.0                                                                                            | 506  |         |                |          |        |         | -             | 15              | FHTXX          |
|                         | REACTIVE RETAILS INC. |        | 70-1944-4    | A-50        | 826.0                                                                                            | 531  |         |                |          |        |         | -             | 15 1            | FNTXX          |
|                         | AFALYING RETAIN THE   |        | 70-1944-5    | COX         | 1500.0                                                                                           | 1000 |         | -              | 666N     | 66úN   |         | ٩             | 13 6            | FMT.X          |
| THE ADD THE SUCCESSION  | TANAN'I TON STANDARD  |        | 71-2291      | N CO        | 6800-0                                                                                           |      | 50      | 40/00          |          |        |         | <             | 11              |                |
|                         | TAMPAC TON STANDAGD   |        | 71-2201-1    | SO X        | 3000-0                                                                                           | 0000 |         | _              | 686N     | 666N   |         | <             | 13 0            | <b>UNITE</b>   |
|                         |                       |        | 71-2506      | 4-50        | 771.0                                                                                            | 64   |         |                |          |        |         | -             | 15              | MANN           |
|                         |                       |        | 71-2504-1    |             |                                                                                                  |      |         |                |          |        |         | - <b>J</b> -n | 5               | INVIN          |
|                         | ancentary cur. Cobs   |        |              |             |                                                                                                  |      | 50      | 40/00          |          |        |         | • ৰ           |                 | JGDXX          |
|                         |                       |        | 70-10-0      | N N         |                                                                                                  |      | 2       | 0/00           |          |        |         |               | 0               | XXUST          |
| VARIANCESS IFSULATED    |                       |        | 70-1989-1    |             |                                                                                                  | 0001 |         | 12.00          | 0 8 9 10 | 0000   |         | <             |                 | NED 2 X        |
| VARAGLASS STORATION     |                       |        |              |             |                                                                                                  |      |         |                |          |        |         | C +-          | ) u             |                |
| PARKASS SLEEP           | THREEA LONG           |        |              |             |                                                                                                  |      |         |                |          |        |         | •             |                 |                |
| VANCLAS SLEEVE          | VARFLEX CORP          |        |              |             | 0.068                                                                                            | 4 64 |         |                |          |        |         |               |                 |                |
| MASCAYER 300. NI PLATED |                       | -010-  | +122-04      | Š           | 0.0001                                                                                           |      | 1       | 10/00          |          |        |         | 4             |                 |                |
| VASCANEX 300. NI PLATER |                       | •0120  | 70-2214-1    | Š           | 1500.0                                                                                           |      | 20      | 40,00          |          |        |         | ۹ (           |                 |                |
|                         | E.I. DUPONT CO. INC.  |        | 67-0608      | X<br>C<br>C | 5<br>5<br>1<br>5<br>1<br>5<br>1<br>5<br>1<br>5<br>1<br>5<br>1<br>5<br>1<br>5<br>1<br>5<br>1<br>5 | 1001 |         |                | 666N     | 666N   |         | <b>x</b> (    | -) -            | KCOXX          |
| I-S TEST                | E.I. DUPDNY CO. INC.  |        | 67-0808-1    | Ň           | 25.0                                                                                             | 1000 |         |                | 653      | 5552   |         | ×             | 2               |                |
|                         | E.I. DUPONT CO. INC.  | • 0150 | e 7-0508-10  | K Q S       | 2000                                                                                             |      | 0.12    | 50/00          |          |        |         | ۹ •           |                 | RCUAA<br>20022 |
|                         | E.I. DUPONT CO. INC.  |        | 67-0808-10   |             | 6"?"<br>                                                                                         | 1000 |         |                | ****     | 556 R  |         | < 6           |                 | 22072          |
|                         | Este UUPONT CO INC.   |        | 2-8090-15    | ECX<br>E    | 0.05                                                                                             | 0001 |         |                |          | 555 N  |         | ĸ             |                 |                |
|                         | E.E. DUPONT CO. INC.  |        | 67-0606-3    | X           | 50.0                                                                                             |      |         |                | 106      | 901    |         |               |                 | KCOXX          |
|                         | E.I. BUPONT COINC.    |        | 67-0808-4    | Š           | 130.0                                                                                            |      |         |                | 845      | 845    |         | 0             | 5               | KCOXX          |
| VESPEL SP-1             | E-1. DUPTINT ".OINC.  |        | 67-0808-5    | X09         | 500.0                                                                                            |      |         |                | 727      | 727    |         | 0             | 13              | XCOX /         |
| I-ds Basen              | E.I. DUPONT CO INC.   |        | 67-0808-6    | GOX         | 1000.0                                                                                           |      |         |                | 657      | 657    |         | 0             | 1               | KCDXX          |
|                         | E.I. DUPONT COINC.    |        | 57-0808-7    | ğ           | 1500.0                                                                                           |      |         |                | 594      | 594    |         | 0             | 13              | KCD XX         |
| VESPEL SP-1             | E.T. DUPANT CO. INC.  |        | 67-0508-8    | ž           | 2000.0                                                                                           |      |         |                | 587      | 587    |         | 0             | Ē               | XCDXX          |
| 1-ds IBdSBA             | E.I. RUPONT CO. INC.  |        | 67-0803-9    | ŝ           | 6.2                                                                                              | 1709 |         |                | 666X     | 666N   |         | لا            | 13              | XCDXX          |
| 1-25 THESE              | rele BUPONT CD. INC.  | .0750  | 67-0808-9    | 20X         | 5000.0                                                                                           |      |         | 00/02          |          |        |         | •             | 2               | KCDXX          |
| WESPEL SP-1             | F.I. DUPONT CO INC.   |        | 70-1881      | <b>Š</b>    | 2000°0                                                                                           |      |         | 00/04          |          |        |         | 4             | 2               | KCOXX          |
| VESPEL SP-1             | E-I- DUPONT CU-INC-   |        | 70-1881      | 60X         | 2000.0                                                                                           |      | 50      | 00/04          |          |        |         | ◄             |                 | KCDXX          |

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MATERIAL TEST DATA RY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

| MFGR S DESIGNATION   | MANUFACTURER           | sPEC.<br>THICK. | TEST RPT ND. | TEST<br>Envr | TEST<br>PRESS | TEMP E | MPT NI<br>NER RI | D DF F     | LASH 9 |              | 00 WT<br>51 LOS' | ·· · · · | NU<br>NU | يور<br>ت |
|----------------------|------------------------|-----------------|--------------|--------------|---------------|--------|------------------|------------|--------|--------------|------------------|----------|----------|----------|
| VESPEL SP-1          | E.I. DUPONT COINC.     |                 | 70-1881-1    | COX          | 50.0          |        |                  |            | 953    | 953          |                  | ÷        | 13 0:    | CDXX     |
| VESPFL SP-1          | E.I. DUPONT CO. INC.   |                 | 70-1881-2    | X N O        | 100.0         |        |                  |            | 912    | ہ1 ک         |                  | 2        | 13 OK    | CDXX     |
| VESPEL SP-1          | E.I. DUPONT CO. INC.   |                 | 70-1881-3    | COX<br>COX   | 500.0         |        |                  |            | RIH    | <b>в</b> , г |                  | Ċ,       | 13 DX    | C P X X  |
| VESPEL SP-1          | E.I. DUPONT CO INC.    |                 | 70-1881-4    | COX          | 1000.0        |        |                  |            | 664    | 414          |                  | c        | 13 OK    | COXX     |
| VESPEL SP-1          | E.I. DUPONT COINC.     |                 | 70-1881-5    | ×03          | 1500.0        |        |                  |            | 474    | 575          |                  | ~        | 13 04    | r D X X  |
| VESPEL SP-1          | E.I. DUPONT CO.INC.    |                 | 70-1881-6    | x og         | 25.0          |        |                  | ~          | 665    | 0707         |                  | ~        | ă<br>C   | CDXY     |
| VESPEL SP-1          | E.I.DUPONT CO.INC.     |                 | 70-1981-7    | č03          | 50.0          |        |                  | 4          | 1 1001 | 0067         |                  | a        | 13 OK    | COXX     |
| VESPEL SP-1          | E.I.DUPONT CO.I.HC.    |                 | 70-1881-8    | X<br>C<br>O  | 2000.0        |        |                  |            | 660    | 650          |                  | c        | 13 DK    | CDXX     |
| VESPEL 55-21         | E.I. DUPONT CO. INC.   |                 | M9-0339      | ŝ            | 5.0           | 1000   |                  |            | 551 1  | 0007         |                  |          | 13 OK    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO INC.    |                 | 1-66E0-6H    | COX<br>COX   | 25.0          | 1000   |                  |            | 1 156  | 5007         |                  |          | 13 DK    | CUGF     |
| VESPEL SP-21         | E.I. DUPONT COINC.     | •0750           | M9-0399-10   | ŝ            | 5000.0        |        | ĕ                | 2/04       |        |              |                  | ٩        | 20 CX    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   | +0750           | M9-0399-11   | 60 X         | 5000.0        | ŝ      | ŏ<br>00.         | 2/05       |        |              |                  | 4        | ž<br>1   | COSF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | M9-0399-12   | Š            | 6.2           | 1000   |                  | ۷          | 6661   | 0007         |                  | <b>~</b> | 13 04    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CU INC.    |                 | H9-0399-13   | 60X          | 16.5          | 1000   |                  | *          | 999    | 4040         |                  | ر.       | 13 OK    | C.D.GF   |
| VESPEL SP-21         | E.I. DUPONT CO INC.    |                 | 5-6660-6M    | с0Х<br>СОЗ   | 50.0          | 1000   |                  |            | 522 1  | 6667         |                  | 7        | 13 UK    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | H9-0399-3    | 60 X         | 50.0          |        |                  |            | 935    | 935          |                  | c        | 13 OK    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | 7-56E0-6H    | Š            | 100.0         |        |                  |            | 126    | 126          |                  | 9        | 13 DK    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | M9-0399-5    | 60X          | 500.0         |        |                  |            | 835    | 835          |                  | c        | 13 DK    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | 9-66E0-6N    | Š            | 1000.0        |        |                  |            | 730    | 730          |                  | c        | 13 DK    | CDGF     |
| VESPEL SP-21         | E+I+ DUPONT CO+1NC+    |                 | M9-0399-7    | 00X<br>000   | 1500.0        |        |                  |            | 645    | 645          |                  | 0        | 13 DX    | CDGF     |
| VESPEL SP-21         | E.I. DUPONY CO. INC.   |                 | 8-56E0-c.:   | Š            | 2000.0        |        |                  |            | 613    | 613          |                  | ۵        | 13 DK    | CNGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   | •075C           | 6-660-6W     | COX<br>COX   | 4500.0        |        | ŏ                | 10/0       |        |              |                  | ۹        | LO DE    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | 70-1880      | COX<br>CO    | 2000.0        |        | õ                | 40/0       |        |              |                  | 4        | 10 DF    | COGF     |
| VESPEL SP-21         | E.I. DUPONT CO. 1MC.   |                 | 70-1880      | COX<br>COX   | 2000.0        |        | 50 01            | 2/04       |        |              |                  | ۲        | 11 0%    | CDGF     |
| VESPEL SP 21         | E.I. DUPONT CO. INC.   |                 | 70-1880-1    | ×09          | 30°D          |        |                  |            | 89 4   | R 94         |                  | ٥        | 13 01    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO. IMC.   |                 | 70-1880-2    | COX<br>COX   | 100.0         |        |                  |            | BAl    | 881          |                  | C        | 13 DK    | CDGF     |
| VESPEL SP-21         | E.I. DUPONT.CO. INC.   |                 | 70-1860-3    | žõ           | 500.0         |        |                  |            | 785    | 795          |                  | చ        | 13 04    | CLGF     |
| YESPEL SP-21         | E.I. DULONT CO. INC.   |                 | 70-1880-4    | COX<br>COX   | 1000.0        |        |                  |            | 760    | 160          |                  | ۵        | 13 OK    | COGF     |
| VESPEL SP-2)         | E.I. DUPONT CO. INC.   |                 | 70-1880-5    | Š            | 1500.0        |        |                  |            | 666    | 666          |                  | С        | 13 04    | CDGF     |
| VESPEL SP-21         | E.I. DUPDNT CO. INC.   |                 | 70-16806     | CO X         | 2000.0        |        |                  |            | 573    | 573          |                  | c        | 5 61     | CDGF     |
| VESPEL SP-21 .       | E.I. DUPONT CO. INC.   |                 | 70-1880-7    | š            | 25.0          | 1000   |                  | <b>-</b> . | 6661   | 66CN         |                  | a.       | 13 0     | CUXX     |
| VESPEL SP-21         | E-T - DUPONT COINC-    |                 | 70-1880-9    | 60X          | 50.0          | 1000   |                  | ۷          | 6661   | 0007         |                  | æ        | 13 0     | COXX     |
| VESPEL SP-21         | E.I. DUPONT COINC.     |                 | 71-5003      | š            | 5000.0        |        | 50               | 0/04       |        |              |                  | ∢        | õ<br>I   | COGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   | •               | 71-5003-1    | X OS         | 5000.0        |        | õ                | 40/0       |        |              |                  | 4        | 5<br>01  | CDGF     |
| VESPEL SP-21         | E+1. DUPONT COINC.     |                 | 71-5003-2    | ŝ            | 2500.0        |        | 0                | 1/01       |        |              |                  | -        | 201      | CDGE     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | 71-5003-3    | 80X          | 2000.0        |        | õ                | 0/04       |        |              |                  | <        | 6<br>01  | CDGE     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | 71-5003-4    | š            | 5000.0        |        | 0                | 1/03       |        |              |                  | -        | 0        | CDGE     |
| VESPEL SP-21         | E-I DUPONT COINC.      |                 | 71-5003-5    | 603          | 4500.0        |        | õ                | 0/04       |        |              |                  | •        | 0<br>01  | COGE     |
| VESPEL SP-21         | E.I. DUPONT COINC.     |                 | 71-5003-6    | š            | 5000.0        |        | 0                | 1/02       |        |              |                  | -        | 0        | CUGE     |
| VESPEL SP-21         | E-I - DUPONT COINC.    |                 | 71-5003-7    | х<br>С       | 4500.0        |        | 0                | 1/01       |        |              |                  |          |          | COGE     |
| VESPEL SP-21         | E+1+ DUPONT CO++INC+   |                 | 71-5003-8    | Š            | 0.0004        |        | 0                | 1/01       |        |              |                  | <b>}</b> | 5        | CDGF     |
| VESPEL SP-21         | E.I. DUPONT CO. INC.   |                 | 71-5003-9    | X 09         | 0.500-0       |        | Ó                | 40/0       |        |              |                  | • ۵      |          | COGE     |
| VESPEL SP-21 LOT 104 | 2 E.I. DUPONT CO. INC. |                 | 71-2565      | XOS          | 0.0004        |        | 0                | 1/01       |        |              |                  | ~        | 10       | COGE     |
| VESPEL SP-21 LOT 106 | 2 E.I. DUPONT CO.INC.  |                 | 71-2565~1    | XOS          | 2500.0        |        | ¢                | 1/01       |        |              |                  | ~        | 2<br>2   | CDGE     |

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•••  MATERIAL TEST DATA BY MAMUFACTURER S DESIGNATION AS UF 31 JAN 72

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| MICK         ENVE PRESS         Teach         Dist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               | DES I CH      | NT IC | ž     | MAM     | IFACTUR.       | ER          | SPEC.  | TEST RPT NO. | TEST        | TEST       | TES T | I AN I | NO OF  | FLASH | FIRE | PROP W1  | A<br>A         |       | NAT!        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|-------|-------|---------|----------------|-------------|--------|--------------|-------------|------------|-------|--------|--------|-------|------|----------|----------------|-------|-------------|
| First         First         Construction         <                                                                                                                                                                                                                                                                                                                      |               |               |       |       |         |                |             | THICK. |              | ENVR        | PRESS      | 1 EMP | ENER   | REACT  | POINT | PT ( | 015T L05 | - SS           | • ••• | 800         |
| No.         No. <td>VESPEL</td> <td><b>SP-</b>21</td> <td>LOJ</td> <td>1062</td> <td>£.1.</td> <td>NOUND</td> <td>7 CDINC.</td> <td></td> <td>71-2565-2</td> <td>702</td> <td>0-0005</td> <td></td> <td></td> <td>207.10</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                               | VESPEL        | <b>SP-</b> 21 | LOJ   | 1062  | £.1.    | NOUND          | 7 CDINC.    |        | 71-2565-2    | 702         | 0-0005     |       |        | 207.10 |       |      |          | 1              |       |             |
| 75784         5-71         101         1000         10100         10100           75784         5-71         101         1000         10000         10100           75784         5-71         101         1000         10000         10100           75784         5-71         101         1000         10000         10100           75784         5-71         101         1000         10000         10100           75784         5-71         101         1000         10000         10100           75784         5-71         1000         10000         10000         10100           75784         5-71         101         1000         1000         10100           75784         5-71         101         1000         1000         10100           75784         5-71         101         1000         10100         10100           75784         5-71         101         1000         10100         10100           75784         5-71         10100         10100         10100         10100           75784         5-71         10100         10100         10100         10100           75784         5-71<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | VESPEL        | SP-21         | 5     | 1062  | E . I . | DUPDHI         | T CDANINCA  |        | 71-7646-2    |             |            |       |        |        |       |      |          | -              | 0     | DKC00       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | VESPEL        | 5-21          | 101   | 1042  |         | MOON           | T CO. INC.  |        |              |             | 0.0000     |       |        | C1/04  |       |      |          | -              | 9     | 000XC       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>MSSPE</b>  | 20-22         | E     |       |         |                |             |        | *******      | ŝ           | 2000.0     |       |        | 01/04  |       |      |          | -              | 10    | DKCDG       |
| 11-2011         11-201-1         623         900.0         00/01           12551         11-1         11-201-1         621         900.0         90           12551         11-1         11-1         11-1         11-1         11-1         11-1           12551         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1         11-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WECOE!        |               |       |       |         |                |             |        | 1697-11      | XOS         | 4500.0     |       |        | 01/01  |       |      |          | -              |       | NC DO       |
| 1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |               | 5     | B 051 |         |                | NTROLS 1:4C |        | 71-2697-1    | Š           | 4000-0     |       |        | 01/01  |       |      |          | - 1-           |       |             |
| Markley         Sector         Te-117*         Gat 2000:0         So 000:0           Markley         Sector         Te-117*-1         Gat 2000:0         So 000:0           Markley         Sector         Te-211*-1         Gat 200:0         So 000:0           Markley         Sector         Te-211*-1         Gat 200:0         So 000:0           Markley         Sector         Sector         Sector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |               | Ę     | 1068  | FLOO    | NNE COM        | WTROLS INC  |        | 71-2697-2    | GOX         | 3500.0     |       |        | 40/00  |       |      |          | - •            | 2     |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | VESPEL        |               |       |       | £.1.    | CUPON .        | 7 CO INC.   |        | 70-1879      | XU2         | 0.000      |       | 20     |        |       |      |          | - •            | 2     |             |
| First         First <th< td=""><td>VESPEL</td><td>SPair</td><td></td><td></td><td>E.I.</td><td>211</td><td>1 20.116.</td><td></td><td>70-1670</td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td>4</td><td>1</td><td>XCDX</td></th<>                                                                                                                                                                                                                                                                       | VESPEL        | SPair         |       |       | E.I.    | 211            | 1 20.116.   |        | 70-1670      |             |            |       | 2      |        |       |      |          | 4              | 1     | XCDX        |
| ************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | YESPEL        | 5 -211        |       |       |         |                | T COLLENS   |        |              |             | 0.0002     |       |        | 00/00  |       |      |          | <              | 07    | <b>XCOX</b> |
| Ref         Sector         Construction         Construction <t< td=""><td>Sec. Per</td><td>50-21</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Š</td><td>100.0</td><td></td><td></td><td></td><td>830</td><td>830</td><td></td><td>0</td><td>6</td><td>DKCD X</td></t<>                                                                                            | Sec. Per      | 50-21         |       |       |         |                |             |        |              | Š           | 100.0      |       |        |        | 830   | 830  |          | 0              | 6     | DKCD X      |
| Market         Second         Control         Control         Control         Second         Seco                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NC/ PC        |               |       |       |         |                |             |        | Z-6/81-0/    | 20X         | 500.0      |       |        |        | 653   | 653  |          | C              |       |             |
| Market         Sector         TO-L177+5         GOX         1500.0         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910         910                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |               |       |       |         |                |             |        | 5-6460 -04   | Š           | 1000.0     |       |        |        | 618   | 618  |          | • =            |       |             |
| Market         Fartie         Fartie<                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               | -     |       |         | - NOLSO        |             |        | 70-1:79-4    | Š           | 1500.0     |       |        |        | 024   |      |          | о <i>с</i>     |       |             |
| March         Second         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcont< td=""><td></td><td></td><td>_</td><td></td><td>E . I .</td><td>INCLUME:</td><td>T COINC.</td><td></td><td>10-1679-5</td><td>ŝ</td><td>50.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thcont<></thcontrol<></thcontrol<>                                                                                                                                                                     |               |               | _     |       | E . I . | INCLUME:       | T COINC.    |        | 10-1679-5    | ŝ           | 50.0       |       |        |        |       |      |          |                |       |             |
| Mark         S-211         E-1         OutPoint         Construct         To-111+7         Construct         To 11/01         Week           FFTM         E-1         OutPoint         Construct         T1-2115-1         CON         UntPoint         Un                                                                                                                                                                                                                                                                                                                                                                                                                                     |               | 212-45        |       |       | E.I.    |                | 7 COIMC.    |        | 70-1879-5    | COX<br>COX  | 0.10       | 1000  |        |        | 0001  | 0007 |          | · د            | n     | K           |
| Filt         Filt <th< td=""><td>VESPEL</td><td>5-211</td><td></td><td></td><td>£.1.</td><td></td><td>T COINC.</td><td></td><td>70-1879-7</td><td>ŝ</td><td></td><td></td><td></td><td></td><td>666N</td><td>555N</td><td></td><td>∢ •</td><td></td><td>XCDX</td></th<>                                                                                                                                                                                                                                                                                                    | VESPEL        | 5-211         |       |       | £.1.    |                | T COINC.    |        | 70-1879-7    | ŝ           |            |       |        |        | 666N  | 555N |          | ∢ •            |       | XCDX        |
| File         File <th< td=""><td>VESPEL</td><td>50-211</td><td></td><td></td><td>E.1.</td><td><b>LNO4</b>ng</td><td>7 CD 1 MC.</td><td></td><td>71-2415</td><td>32</td><td></td><td></td><td></td><td></td><td>アナノス</td><td>ロククズ</td><td></td><td>•</td><td>5</td><td>XCOX</td></th<>                                                                                                                                                                                                                                                                                      | VESPEL        | 50-211        |       |       | E.1.    | <b>LNO4</b> ng | 7 CD 1 MC.  |        | 71-2415      | 32          |            |       |        |        | アナノス  | ロククズ |          | •              | 5     | XCOX        |
| Freek         Freek <th< td=""><td>VESPER</td><td>SP-211</td><td></td><td></td><td>Este</td><td>Dupth</td><td>CO. INC.</td><td></td><td>71-2616-1</td><td></td><td>0.0000</td><td></td><td></td><td>10/10</td><td></td><td></td><td></td><td>-</td><td>2</td><td>XCDX</td></th<>                                                                                                                                                                                                                                                         | VESPER        | SP-211        |       |       | Este    | Dupth          | CO. INC.    |        | 71-2616-1    |             | 0.0000     |       |        | 10/10  |       |      |          | -              | 2     | XCDX        |
| VITURE         East outwork consists         Marchine         Marchine         East outwork consists         Marchine         East outwork consists </td <td><b>VESPEL</b></td> <td>59-211</td> <td></td> <td></td> <td></td> <td>Current of</td> <td></td> <td></td> <td></td> <td>3</td> <td>0.0002</td> <td></td> <td></td> <td>10/10</td> <td></td> <td></td> <td></td> <td>-</td> <td>101</td> <td><b>XCOX</b></td> | <b>VESPEL</b> | 59-211        |       |       |         | Current of     |             |        |              | 3           | 0.0002     |       |        | 10/10  |       |      |          | -              | 101   | <b>XCOX</b> |
| W170       Sector       W170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MOLIA         | _             |       |       |         | Charlen of     |             |        | 2-5152-14    |             | 1500.0     |       |        | 00/04  |       |      |          | 4              | 201   | <b>XCOX</b> |
| WITTOR       E       000000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       00000       000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | VITCH A       |               |       |       |         | Canodary -     |             |        |              | Š           | 0.0        | 1000  |        |        | 857   | 666N |          | -)             | 6     | DOP X       |
| V1700       Sector       00000       50000       00004       556       556         V1700       F110       E10       000000       500000       00004       556       556         V1700       F110       E10       000000       500000       00004       556       556       556         V1700       F110       E10       000000       50       00000       50       00004       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556       556 <t< td=""><td>AT TON</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1-5620-6H</td><td></td><td>25.0</td><td></td><td></td><td></td><td>836</td><td>85S</td><td></td><td>٥</td><td>13</td><td>1000</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                               | AT TON        |               |       |       |         |                |             |        | 1-5620-6H    |             | 25.0       |       |        |        | 836   | 85S  |          | ٥              | 13    | 1000        |
| W1100       K       000000       000000       000000       000000         W1100       K       000000       000000       000000       000000       000000         W1100       K       K       000000       000000       000000       000000         W1100       K       K <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>01-5620-64</td><td>Ň</td><td>2000.0</td><td></td><td></td><td></td><td>456</td><td>456</td><td></td><td>C</td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |               |       |       |         |                |             |        | 01-5620-64   | Ň           | 2000.0     |       |        |        | 456   | 456  |          | C              |       |             |
| W1700       Set       DUPONT       CO.1 MC       0750       MT-0235-12       GOX       4000.0       01/01         W1700       E-10       DUPONT       CO.1 MC       0750       MT-0235-11       GOX       4000.0       01/01         W1700       E-10       DUPONT       CO.1 MC       0750       MT-0235-11       GOX       4000.0       01/01         W1700       E-10       DUPONT       CO.1 MC       0750       MT-0235-11       GOX       4000.0       01/01         W1700       E-10       DUPONT       CO.1 MC       0750       MT-0235-11       GOX       4000.0       01/01         W1700       E-10       DUPONT       CO.1 MC       0750       MT-0235-11       GOX       4000.0       01/01         W1700       E-10       DUPONT       CO.1 MC       0750       MT-0235-11       GOX       4000       01/01         W1700       E-10       DUPONT       CO.1 MC       MT-0235-11       GOX       4000       910       959       959       959       959       959       959       959       959       959       959       959       959       959       959       950       950       950       950       950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |               |       |       |         |                |             | 0420+  | []-6620-6H   | XOS         | 3500.0     |       |        | 00/04  |       |      |          | -              |       |             |
| VITUR       01700       01/01       01/01         VITUR       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01       01/01         01/01       01/01       01/01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | •             |       |       |         |                | r co chi    | 06704  | 21-5620-64   | Š           | 4000 °C    |       |        | 01/03  |       |      |          | C              |       |             |
| VITURE       5410       000000       50       01/04         VITURE       611       0000000       50       00/01       50       00/01         VITURE       611       0000000       50       000000       50       00/01         VITURE       611       0000000       50       000000       50       00/01         VITURE       611       0000000       500       00/01       50       00/01         VITURE       611       0000000       500       00/01       50       00/01         VITURE       611       0000000       500       00/01       50       00/01         VITURE       611       000000       500       00/01       500       500       500         VITURE       611       000000       500       600       500       500       500       500         VITURE       611       000000       600       600       500       500       500       500       500         VITURE       611       000000       600       600       600       500       500       500       500       500       500       500       500       500       500       500       500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | •             | •     | •     |         |                |             | •0150  | H4-0295-13   | X OS        | 4500.0     |       |        | 10/10  |       |      |          | C              |       |             |
| VITUR       0750       09-0259-15       60X       40000       97         VITUR       6-10       000001       60X       50000       97       97         VITUR       6-10       000001       60X       50000       97       97         VITUR       6-10       000001       60X       50000       97       97000       97         VITUR       6-10       000001       60X       50000       97       9700       97         VITUR       6-10       000001       60X       50000       97       9700       97         VITUR       6-10       000001       60X       5000       97       9700       97         VITUR       6-10       000001       60X       5000       97       97       97         VITUR       6-10       000001       60X       5000       97       97       97         VITUR       6-10       000001       60X       500       97       97       97         VITUR       6-10       000001       60X       500       97       97       97         VITUR       6-10       000001       70X       97       97       97       97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               | • -           |       |       |         |                |             | •0150  | H0-0202-14   | Š           | 5000.0     |       |        | 01/04  |       |      |          |                |       |             |
| VITUR       5:000.0       5000.0       50       00/04         VITUR       E:1       000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               | •             |       |       |         |                |             | • 0750 | M9-0295-15   | 20X         | 4000-0     |       | 50     | 10/00  |       |      |          | -              | 2     |             |
| VITOR       811       600       612       612       612       613       899       817         VITOR       811       000011       00011       00011       00011       611       899       817       899       817       899       817       899       817       899       817       899       817       893       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593 <td></td> <td></td> <td></td> <td></td> <td></td> <td>I MOLEOO</td> <td>CC INC.</td> <td>•0150</td> <td>M9-0295-16</td> <td>ŝ</td> <td>5000.0</td> <td></td> <td>20</td> <td>40/00</td> <td></td> <td></td> <td></td> <td>( &lt;</td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |               |       |       |         | I MOLEOO       | CC INC.     | •0150  | M9-0295-16   | ŝ           | 5000.0     |       | 20     | 40/00  |       |      |          | ( <            |       |             |
| VITOR       Serie       DUPONT       COLINC       M9-0239-16       C/Y       16.5       856       879       879       879         VITOR       E-1       DUPONT       COLINC       M9-0239-16       C/Y       816       826       826       826       826       826       826       826       873       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       595       593       593       595       593       595       593       595       593 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>H9-0295-17</td> <td><b>X</b>09</td> <td><b>6.2</b></td> <td>1000</td> <td></td> <td></td> <td>875</td> <td>006N</td> <td></td> <td>( <del>-</del></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                  |               |               |       |       |         |                |             |        | H9-0295-17   | <b>X</b> 09 | <b>6.2</b> | 1000  |        |        | 875   | 006N |          | ( <del>-</del> |       |             |
| WITCH       F=1       DUPONT       COL.INC.       H9-0295-2       GOX       90.0       926       925         WITCH       F=1       DUPONT       COL.INC.       H9-0295-5       GOX       50.0       926       925         WITCH       F=1       DUPONT       COL.INC.       H9-0295-5       GOX       50.0       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593 <td></td> <td></td> <td></td> <td></td> <td></td> <td>in the second</td> <td>CO++INC+</td> <td></td> <td>N9-0295-18</td> <td>N<br/>Ci</td> <td>16.5</td> <td></td> <td></td> <td></td> <td>859</td> <td>870</td> <td></td> <td>s c</td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                     |               |               |       |       |         | in the second  | CO++INC+    |        | N9-0295-18   | N<br>Ci     | 16.5       |       |        |        | 859   | 870  |          | s c            |       |             |
| WITCH       F:::       DUPONT CO.:NC.       M9-0239-3       GOX       50.0       593       593         WITCH       F:::       DUPONT CO.:NC.       M9-0299-5       GOX       500.0       593       593       593         WITCH       F:::       DUPONT CO.:NC.       M9-0299-5       GOX       500.0       593       593       593         WITCH       F:::       DUPONT CO.:NC.       M9-0299-5       GOX       500.0       590       590       593       593         WITCH       F:::       DUPONT CO.:NC.       M9-0299-5       GOX       500.0       506       590       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593       593 <td></td> <td></td> <td></td> <td></td> <td></td> <td>140400</td> <td>T COINC.</td> <td></td> <td>M9-0295-2</td> <td>X09</td> <td>50.0</td> <td></td> <td></td> <td></td> <td>826</td> <td>826</td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                         |               |               |       |       |         | 140400         | T COINC.    |        | M9-0295-2    | X09         | 50.0       |       |        |        | 826   | 826  |          |                |       |             |
| WITCH       E       DUPONT       COL.INC.       M9-0299-4       GOX       100.0       590       590         WITCH       E       DUPONT       COL.INC.       M9-0299-5       GOX       500.0       520       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       590       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500       500 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>L CUNINC.</td> <td></td> <td>8-5620-64</td> <td>ŝ</td> <td>50.0</td> <td></td> <td></td> <td></td> <td>593</td> <td>593</td> <td></td> <td></td> <td>1 11</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |               |       |       |         |                | L CUNINC.   |        | 8-5620-64    | ŝ           | 50.0       |       |        |        | 593   | 593  |          |                | 1 11  |             |
| WITCH       E       DUPONT       COLINC       M9-0299-5       GOX       500.0       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320       320 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>M9-0295-4</td> <td>X OS</td> <td>100.0</td> <td></td> <td></td> <td></td> <td>590</td> <td>290</td> <td></td> <td>. c</td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |               |       |       |         |                |             |        | M9-0295-4    | X OS        | 100.0      |       |        |        | 590   | 290  |          | . c            |       |             |
| VITOR       SME       E       DUPONT CO.: INC.       M9-0299-0       GOX       900.0       306       506       506         VITOR       SME       E       DUPONT CO.: INC.       M9-0299-0       GOX       1000.0       482       482       483         VITOR       SME       E       DUPONT CO.: INC.       M9-0299-9       GOX       1000.0       482       482       482         VITOR       SME       E       DUPONT CO.: INC.       M9-0299-9       GOX       1000.0       482       482       482         VITOR       SME       E       DUPONT CO.: INC.       M9-0268-1       JT       200       00/01       562       755         VITOR       SME       E       DUPONT CO.: INC.       0790       M9-0268-1       JT       200       00/01       562       755         VITOR       SME       E       DUPONT CO.: INC.       0790       M9-0268-11       JT       200       00/01       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725       725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | •             |       |       |         |                |             |        | M9-0295-5    | Š           | 500.0      |       |        |        | 520   | 520  |          | ) C            |       |             |
| VITOR       SMEET       Eviloant       CULLINC       M9-0299-7       GOX       LOOOLD       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485       485 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>H9-0295-6</td><td>Š</td><td>900.0</td><td></td><td></td><td></td><td>306</td><td>506</td><td></td><td>C</td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               |       |       |         |                |             |        | H9-0295-6    | Š           | 900.0      |       |        |        | 306   | 506  |          | C              |       |             |
| VITON 5 SMEET       E-1: DUPCNT COIMC.       M9-0295-0       GOX 1000.0       482       482       482         VITON 5 SMEET       E-1: DUPCNT COIMC.       M9-02295-0       GOX 1500.0       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480       480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |               |       |       |         |                | 1 CU++1WC+  |        | H9-0202-0H   | ŝ           | 1000.0     |       |        |        | 485   | 485  |          | 2              |       |             |
| VITOR       SMET       E-1:       DUPONT       COLINC:       M9-0295-9       GGX       (500.0)       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600       600 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1 CO+1NC+</td><td></td><td>#3-0262-B</td><td>50%</td><td>1000.0</td><td></td><td></td><td></td><td>487</td><td>482</td><td></td><td></td><td></td><td></td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |       |       |         |                | 1 CO+1NC+   |        | #3-0262-B    | 50%         | 1000.0     |       |        |        | 487   | 482  |          |                |       |             |
| VITON B SHET         E-1: DUPONT COINC:         N9-0268-1         JI (25.0)         562         555           VITON B SHET         E-1: DUPONT COINC:         0750         N9-0268-11         GOX         1500.0         200         00/01           VITON B SHET         E-1: DUPONT COINC:         0750         N9-0268-11         GOX         1500.0         200         00/01           VITON B SHET         E-1: DUPONT COINC:         0750         N9-0268-11         GOX         1500.0         200         00/01           VITON B SHET         E-1: DUPONT COINC:         N9-0268-12         G/X         500.0         725         725           VITON B SHEET         E-1: DUPONT COINC:         N9-0268-12         G/X         500.0         572         572           VITON B SHEET         E-1: DUPONT COINC:         N9-0268-12         G/X         500.0         572         572           VITON B SHEET         E-1: DUPONT COINC:         N9-0266-12         G/X         500.0         572         572           VITON B SHEET         E-1: DUPONT COINC:         N9-0268-12         G/X         1000.0         572         572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |               |       |       |         |                | COINC.      |        | M9-0295-9    | Š           | 1500.0     |       |        |        | 480   | 480  |          |                |       |             |
| VITOR 5 SMET         E-10 DUPONT C00-1MC         -0790         M9-0268-10         GOX         1500.0         200         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001         001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |               | ~     |       |         | 12300          | CO++1MC+    |        | M9-0268-1    | š           | 25.0       |       |        |        | 5.62  | 5    |          | 0 0            |       |             |
| VITOR 5 SNEET         E-1:         DUPONT COIMC.         •0750         M9-0268-11         Gux         200         00/04         5         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         5         7         7         7         7         7         7         7         7         7         7         7         7         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |               |       |       |         | LNDANO         | CO. INC.    | -0750  | H9-0268-10   | ×09         | 1500.0     |       | 200    | 10/00  | 5     |      |          | •              |       |             |
| VITOR B SWEET         E-I         DUPONT CD-INC+         N9-0268-12         GJX         50.0         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         725         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727         727          702 <th< td=""><td></td><td></td><td>~</td><td></td><td></td><td>LNOANG</td><td>CO INC.</td><td>• 0750</td><td>M9-0268-11</td><td>XOS</td><td>2000.0</td><td></td><td>200</td><td>40/00</td><td></td><td></td><td></td><td>• ۲</td><td>1:</td><td></td></th<>                                                                                                                                                                                                                                                                                                                                                  |               |               | ~     |       |         | LNOANG         | CO INC.     | • 0750 | M9-0268-11   | XOS         | 2000.0     |       | 200    | 40/00  |       |      |          | • ۲            | 1:    |             |
| VITON B SMEET         E-I- DUPONT C01MC.         M9-0268-13         GOX         100.0         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         657         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650         650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |               |       |       |         |                | COINC.      |        | M9-0268-12   | ž           | 50.0       |       |        |        | 725   | 7.6  |          | ( )            |       |             |
| VITON 6 SMEET E-1. DIPONT COINC. N9-0268-1/ GOX 500.0 572 572 0<br>MITON 6 SMEET E-1. DIPONT COINC. M9-0268-15 GOX 1000.0 502 502 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               |       |       |         | INGADO         |             |        | M9-0268-13   | 60 X        | 100.0      |       |        |        | 6.57  | 657  |          | <i>-</i>       | 22    |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |       |       |         |                | CO+1NC+     |        | H9-0266-1/   | ŝ           | \$00.0     |       |        |        | 572   | 572  |          | 20             |       | HDE         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               |       |       |         | 120410         | CU IMC.     |        | M9-0268-15   | 60 X        | 1000.0     |       |        |        | 502   | 502  |          | 6              |       | HDFY        |

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MATERIAL TEST DATA HY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

| MFGR S DESIGNATION | MANUFACTURER                                   | SPEC.<br>THICK. | TEST RPT NO.      | TEST<br>Envr | TEST<br>PRESS | TEMP EN | PT NO OF | FLASH<br>P01NT | F 1 & E | PROF WI | ÷<br>ه   | M M<br>C O | ي ب        |
|--------------------|------------------------------------------------|-----------------|-------------------|--------------|---------------|---------|----------|----------------|---------|---------|----------|------------|------------|
| VITON B SHEET      | E.I. DUPONT CCINC.                             |                 | M9-U268-16        | 50 X         | 6.2           | 1000    |          | 489            | 660 V   |         | ſ        | 3 CHC      | IF X X     |
| VITON B SHEET      | E.I. DUPOHT COINC.                             |                 | M9-0268-17        | 60 X         | 16.5          |         |          | 885            | 006     |         | 0        | 3 CHC      | EXX        |
| VITON B SHEET      | E.I. DUPONT CO. INC.                           |                 | M9-0268-18        | X09          | 1500.0        |         |          | 420            | 064     |         | 0        | 3 CHC      | FXX        |
| VITON B SHEET      | E-I . DUPONT CO INC.                           |                 | M9-0268-19        | 20X          | 2000.0        |         |          | 515            | 515     |         |          | 3 CHD      | FXX        |
| VITON & SHEET      | E.I. DUPONT COINC.                             |                 | M9-0268-2         | X OS         | 50.0          |         |          | 400            | 190     |         | 0        | 3 CHC      | F X X      |
| VITON B SHEET      | E-I - DUPONT CO. INC.                          |                 | M90268-3          | COX          | 900.0         |         |          | 472            | 475     |         | -        | CHC 6      | EXX        |
| VITON B SHEET      | E.I. DUPONT CO. INC.                           | .0750           | M9-0266-4         | ŝ            | 3500.0        |         | 10/00    |                | ,       |         |          | CHO        | XXJ        |
| VITCH B SHET       | E.I. DUPONT CO. INC.                           | •0750           | M9-0268-5         | X09          | 4000-0        |         | 00/00    |                |         |         | A 1      | CHC 0      | FXX        |
| VITON B SHEET      | E.I. DUPONT CD. INC.                           | .0750           | M9-0268-6         | X OS         | 4500.0        |         | 10/00    |                |         |         | ۰ ۲<br>۲ |            | E X X      |
| VITON & SHEET      | E.I. DUPONT CO. INC.                           | .0750           | M9-0268-7         | X OS         | 5000.0        |         | :0/00    |                |         |         | 4        | 0HD 0      | FXX        |
| WITCH B SMEET      | E.I. DUPONT COINC.                             | •0750           | M9-0268-R         | žÖ           | 500.0         | 202     | 10/00 0  |                |         |         | 4 T      | L CHC      | FXX        |
| VETON P SHEET      | - E+1. DUPONT CO. INC.                         | -0750           | <b>×9-0268-</b> 9 | 20X          | 1000.0        | 200     | 10/00 0  |                |         |         | 4 1<br>4 | 1 CHO      | EXX        |
| . AITON LUBBER     | CAL-STATE SEAL CO.                             |                 | 70-2022           | Ĩ            | 615.0         | 477     |          |                |         |         | 1 1      | S CHO      | XX 9       |
| VITON NUBBER       | CAL-STATE SEAL CO.                             |                 | 70-2022-1         | III          | 801.0         | 477     |          |                |         |         |          | 5 CHO      | EXX        |
| VITON RUSBER       | CAL-STATE SEAL CD.                             |                 | 70-2022-2         | N204         | 405.0         | 214     |          |                |         |         | 7 1      | 4 CHC      | EXX        |
| WITCH RUBBER       | CAL-STATE SEAL CO.                             |                 | 70-2022-3         | N204         | 371.3         | 128     |          |                |         |         | Al       | 4 CHD      | EXX        |
| VITON RUBBER       | CAL-STATE SEAL CO.                             |                 | 70-2022-4         | N204         | 358.5         | 73      |          |                |         |         | A 1      | 4 CHC      | NE X X     |
| VITON PUBBER       | CAL-STATE SEAL CO.                             |                 | 70-2022-5         | N204         | 360.5         | 75      |          |                |         |         | 4        | 4 CHO      | EXX        |
| 6-LLE-A NOLIA      | PARKER SEAL/LOS ANGLS                          |                 | 10-43             | 20X          | 50.0          |         |          | 540            | 540     |         | 5        | 3 DVC      | FXX        |
| 6-425-A NOLIA      | PARKER SEAL/LOS ANGLS                          |                 | 10-49-1           | ×09          | 100.0         |         |          | 530            | 530     |         | -<br>C   | 0 V O      | FXX        |
| " VIJON V-672-75   | PARKER SEAL/LOS ANGLS                          |                 | 10-53             | Š            | 50.0          |         |          | 660            | 660     |         | 0        | 3 0VO      | F X X      |
| WITCH V-672-75     | PARKER SEAL/LOS ANGLS                          |                 | 10-53-1           | XOS          | 100.0         |         |          | 632            | 632     |         | 1 0      | 3 6VD      | FXX        |
| 51-219-A NOLIA     | PARKER SEAL/LOS ANGLS                          |                 | 10-53-2           | Š            | 500.0         |         |          | 566            | 566     |         | 0        | 3 DVD      | XXL        |
| 9150N V-512-75     | PARKER SEAL/LDS ANGLS                          |                 | 10-53-3           | Š            | 1000.0        |         |          | 529            | 529     |         | 0        | 3 040      | ¥X 4       |
| ATON V-672-75      | PARKER SEAL/LOS ANGLS                          |                 | 10-53-4           | š            | 1500.0        |         |          | 495            | 495     |         | 0        | 3 DVO      | F X X      |
| VITON 4-672-75     | PARKER SEAL/LOS ANGLS                          |                 | 10-53-5           | 20X<br>00X   | 2000.0        |         |          | 4 P 2          | 482     |         | 0        | 3 DVO      | FXX        |
| V1TDN V-672-75     | PARKER SEAL/LUS ANGLS                          |                 | 70-1708           | ×03          | 5.0           | 1000    |          | 832            | 066N    |         | 4        | 3 DVD      | FXX        |
| VITON V-672-75     | PARKER SEAL/LOS ANGLS                          |                 | 70-1708-1         | ×09          | 25.0          |         |          | 740            | R25     |         | c        | 3 DVO      | FXX        |
| VITON V-672-75     | PARKER SEAL/LOS ANGLS                          | •0250           | 70-1708-10        | ž            | 5000.0        |         | 04/04    |                |         |         | -        | O DVD      | YX HO      |
| VITON V-672-75     | PARKER SEAL/LOS ANGLS                          |                 | 70-1708-11        | × 00         | <b>6.</b> 2   | 1000    |          | 857            | 66ÚN    |         |          | 3 0/0      | XX         |
| 51-219-A MOLIA     | PARKEN SEAL/LDS ANGLS                          |                 | 70-1708-12        | Š            | 10.5          |         |          | 853            | 853     |         | 0        | 3 0/0      | F X X      |
| . YITON V-672-75   | PARKER SEAL/LOS ANGLS                          | 0.000           | 70-1708-2         | × 200        | 50.0          |         |          | 633            | 780     |         | <b>.</b> |            | XXL        |
|                    | PARKER SEAL/LUS ANGLO                          | 0620+           |                   | ŝ            | 0.0001        |         | 10/00    |                |         |         |          |            | XXI        |
|                    | PARKER SEAL/LOS ANGLS                          | • 0750          | 70-1709-4         |              | 2000.0        |         | 10/00    |                |         |         | 4        |            | FXX<br>FXX |
|                    | PREVEN SCAL/LUS ANGLS                          | 00100           | C-80/1-0/         | 32           | 00002         |         |          |                |         |         | <        |            | X X 4      |
|                    | PARKER SEAL/LUS ANGL'                          | 0410.           | 9-80/1-0/         | Š            | 0000          |         | 10/00    |                |         |         | 4        |            | ××1        |
| SI-ZIG-A MDIIA     | PAPARA SEAL/LUS ANGLO                          | 0610+           |                   | ŝ            | 0.0045        |         | 10/00    |                |         |         | 4        |            | EX 4       |
| VITON V-672-75     | PARKER SEAL/LOS ANGLS                          | •0150           | 70-1708-8         | X 00         | 0.0004        |         | 10/00    |                |         |         | 4        |            | XX         |
| 6/-2/0-A MD/14     | PARKER SEAL/LIS ANGLS                          | 0610+           | 1-0-1/08-4        | Š            | 4500.0        | ĺ       | 40/00    |                |         |         |          |            | E XX       |
|                    | PARKER SEAL/LOS ANGLS                          |                 | 01E2-11           | č<br>S<br>S  | 500.0         | ñ       | 00/04    |                |         |         | 4<br>1   | E CHO      | F XX       |
|                    | PARKER SEAL/LOS ANGLS                          |                 | 71-2370-1         | ŝ            | 500.0         |         | 40/00    |                |         |         | 4 1      | CHC<br>0   | XXUC       |
|                    | PARKER SEAL/LOS ANGLS<br>DAAKER SEAL/LOS ANGLS |                 | 71-2370-2         |              | 100.0         |         |          | 650            | 650     |         | <br>د-   |            | × × 1      |
|                    | TATACA VEAL/LUU MUVLU<br>Distri fri vini f     |                 | 1-62-61           | 30           |               | i       |          |                |         |         | 4.<br>E. |            | N N N      |
|                    | PAKKEN SCAL/LUS ANULS                          |                 | 11-2310-4         | د<br>د       | 2500.00       | ň       | 90/00 C  |                |         |         | 7        | L CH       | F X X      |

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NAYERIAL TEST DATA BY MANUFACIURER S DESIGNATION AS OF 31 JAN 72

| MFGR S DESIGNATION MA                      | NNFACTURER             | SPEC.<br>THICK. | TEST RPT NO. | TEST<br>ENVR                                                                                                    | TEST<br>PRESS | TEST | T MP T<br>E NER | NO OF<br>REACT | FLASH<br>POINT | FIRF | PROP<br>DIS1 L | HT<br>DSS | + +<br>4     | COD!   | _ 141 |
|--------------------------------------------|------------------------|-----------------|--------------|-----------------------------------------------------------------------------------------------------------------|---------------|------|-----------------|----------------|----------------|------|----------------|-----------|--------------|--------|-------|
| VITON 77-545 PA                            | WAKER SEAL/LOS ANGLS   |                 | 71-2370-5    | š                                                                                                               | 1500.0        |      |                 |                | 454            | 464  |                |           | 0 13         | CHD    | XX    |
| VITALFIED ALUMINA INSUL RD                 | DSEMONT ENG. CORP      |                 | 70-1983      | X09                                                                                                             | 1500.0        |      | 50              | 00/00          |                | I    |                |           |              | i i    | A X X |
| VITRIFIED ALUKINA INSUL RO                 | DSEMONT ENG. CORP      |                 | 70-1983      | XOS                                                                                                             | 1500-0        |      | 2               | 00/04          |                |      |                |           |              | F.IM   | A X X |
| VITRIFIED ALUMINA INSUL RO                 | DSEMONT ENG. CORP      |                 | 70-1983-1    | COX<br>COX                                                                                                      | 1500.0        | 1000 |                 |                | 666N           | 666N |                |           |              | E L    | XX    |
| VULCALOCK B.                               | F. GOODRICH            |                 | 71-2371      | Š                                                                                                               | 500.0         |      | 50              | 00/07          |                |      |                |           | A 11         | DPHI   | XXO   |
| WLCALOCK B.                                | F. GODRICH             |                 | 71-2371-1    | 60 X                                                                                                            | 500.0         |      |                 | 00/04          |                |      |                |           | A 10         | HdO    | XXC   |
| VULCALOCK B.                               | F. 600041CH            |                 | 71-2371-2    | Š                                                                                                               | 100.0         |      |                 |                | 621            | 621  |                |           | 0 13         | HdQ    | XXQ   |
| MESCO AL 500 ME                            | STERN GOLD + PLATH CO. |                 | 70-2235      | 60 X                                                                                                            | 500.0         |      |                 | 40/00          |                |      |                |           | A 10         | FIM    | X     |
| WIRE ET VI                                 | ICTOR WIRE & CABLE     |                 | 71-2714      | INI                                                                                                             | 0.26.0        | 550  |                 |                |                |      |                |           | 15           | E P M  | XX    |
| WIRE ET VI                                 | ICTOR WIRE & CABLE     |                 | 71-2714-1    | HNN                                                                                                             | 828.0         | 558  |                 |                |                |      |                |           | 15           | E P N  | X     |
| WIRE ET VI                                 | ICTOR NIRE & CABLE     |                 | 71-2714-2    | IW                                                                                                              | 782.0         | 523  |                 |                |                |      |                |           | T 15         | EPN    | CXX   |
| WIRE-WELDING WIL-R-5031 NA                 | NTIONAL STANDARDS      |                 | 70-1927      | X D S                                                                                                           | 1500.0        |      | 50              | 40/00          | ۰.             |      |                |           |              | X      | XXX   |
| WIRE-WELDING MIL-R-5031 KA                 | ATICHAL STANDARDS      |                 | 70-1927      | Š                                                                                                               | 1500.0        |      |                 | 00/00          |                |      |                |           | A 10         | XII    | XXX   |
| LINT 33T SI                                | (MUNS)                 |                 | 71-2720      | A-50                                                                                                            | 750.0         | 514  |                 |                |                |      |                |           | 1 15         | ERX    | ×××   |
| 11 33T SI                                  | INTERS STATES          |                 | 71-2720-1    | A-50                                                                                                            | 765.0         | 518  |                 |                |                |      |                |           | T 15         | ERX    | XXX   |
| XR-5038/MICA 3M                            | 1 CO. ST. PAUL         |                 | 71-2602      | A-50                                                                                                            | 681.0         | 484  |                 |                |                |      |                |           | T 15         | A 2 9( | L H D |
| XR-5034/MJCA 3H                            | A CD. ST. PAUL         |                 | 71-2602-1    | A-50                                                                                                            | 689.0         | 693  |                 |                |                |      |                |           | T 15         | A 2 B( | GHF   |
| XR-5035/HICA 3H                            | I CO. ST. PAUL         |                 | 71-2602-2    | A-50                                                                                                            | 761.0         | 514  |                 |                |                |      |                |           | T 15         | A Z B( | GHF   |
| XR-5036/MICA 31                            | 4 CO. ST. PAUL         |                 | 71-2602-3    | A-50                                                                                                            | 736.0         | 512  |                 |                |                |      |                |           | 1 15         | ALB(   | GHP   |
| ONT D-RING COMP. V 377-9FL                 | LODYNE CONTROLS INC    |                 | 71-2567      | COX                                                                                                             | 3000.0        |      |                 | 10/00          |                |      |                |           | A 10         | XMA    | XXX   |
| 001 0-41NG COMP. V 377-9FL                 | LODYNE CONTROLS INC    |                 | 71-2567-1    | š                                                                                                               | 3500.0        |      |                 | 10/00          |                |      |                |           | A 10         | AHX    | XXX   |
| 007 0-NING COMP. V 377-9FL                 | DDYNE CONTROLS INC     |                 | 71-2567-2    | 60 X                                                                                                            | 4000.0        |      |                 | 10/00          |                |      |                |           | A 10         | AWX    | XXX   |
| 007 0-RING COMP. V 377-9FL                 | CONTROLS INC           |                 | 71-2567-3    | õ                                                                                                               | 4500.0        |      |                 | 00/04          |                |      |                |           | A 10         | AWX    | XXX   |
| 007 0-RING COMP. V 377-9FL                 | DOTHE CONTROLS INC     |                 | 71-2567-4    | 20X                                                                                                             | 5000.0        |      |                 | 01/03          |                |      |                |           | 1 10         | XMA    | XXX   |
| OOS O-RING COMP. V 377-9FL                 | LODYNE CONTROLS INC    |                 | 71-2566      | š                                                                                                               | 2500.0        |      |                 | 10/10          |                |      |                |           | T 10         | AWX    | XXX   |
| 008 0-41NG COMP. V 377-9FL                 | DOYNE CONTROLS INC     |                 | 71-2566-1    | ×09                                                                                                             | 2000.0        |      |                 | 01/03          |                |      |                |           | T 10         | XWA    | XXX   |
| 009 0-RING COMP. V 377-9FL                 | CODYNE CONTROLS INC    |                 | 71-2566-2    | Š                                                                                                               | 1500.0        |      |                 | 00/07          |                |      |                |           | A 10         | Ank    | XXX   |
| 011 D-RING CONP. V 377-9FL                 | COTTROLS INC           |                 | 71-2648      | 60 X                                                                                                            | 550.0         |      | 50              | 03/03          |                |      |                |           | TII          | (XMA)  | XXX   |
| OLL D-RING CONP. V 377-9FL                 | LODYNE CONTROLS INC    |                 | 7;-2648-1    | š                                                                                                               | 3050.0        |      |                 | 10/10          |                |      |                |           | T 10         | XMV    | XXX   |
| 011 G-RING COMP. V 377-9FL                 | DOVNE CONTROLS INC     |                 | 71-2648-2    | 60 X                                                                                                            | 2550.0        |      |                 | 01/02          |                |      |                |           | 1 50         | AWX    | XXX   |
| OIL O-RING COMP. V 377-9FL                 | CONTROLS INC           |                 | 71-2648-3    | õ                                                                                                               | 2050.0        |      |                 | 00/04          |                |      |                |           | A 10         | AWX    | XXX   |
| OLE D-KING COMP. V 377-9FL                 | DOTHE CONTROLS INC     |                 | 71-2649      | X OS                                                                                                            | 2000 0        |      | 20              | 00/07          |                |      |                |           | 4 11         | AWX    | ××××  |
| 016 0-RIMG COMP. V 377-9FL                 | LODYNE CONTROLS INC    |                 | 71-2649-1    | õ                                                                                                               | 4500.0        |      |                 | 10/10          |                |      |                |           | 1 20         | AHX    | XXX   |
|                                            | -UUTWE LUWIKULS INC    |                 | 2-6407-11    | in the second | 0.000         |      |                 | 60/10          |                |      |                |           |              | XAN    | ×××   |
| 016 C-KING COMP. V 377-4FL                 | LODYNE CONTROLS INC    |                 | 71-2649-3    | ŝ                                                                                                               | 3500.0        |      |                 | 01/02          |                |      |                |           | 1 10         | AWX    | ×××   |
| OLA D-RING COMP. V 377-9FL                 | DOYNE CONTROLS INC     |                 | 71-2649-4    | ž                                                                                                               | 3000.0        |      |                 | 01/03          |                |      |                |           | T 10         | XMA    | ×××   |
| 016 0-RING COMP. V 377-9FL                 | LODYNE CONTROLS INC    |                 | 71-2649-5    | Š                                                                                                               | 2500.0        |      |                 | 00/04          |                |      |                |           | A 10         | XXA    | XXX   |
| LOR RED FIBER SHEET                        |                        | .0750           | SP-6931      | XOS                                                                                                             | 25.0          |      |                 |                | 009            | 600  |                |           | 61 0         | CRBC   | 5××   |
| BUR RED FIBER SHEET                        |                        | • 1750          | SP-6931-1    | õ                                                                                                               | 20.0          |      |                 |                | 597            | 547  |                |           | 0 13         | C B B  | XXU   |
| LOR RED FIGER SHEET                        |                        | • 0 7 5 0       | SP-6931-10   | 20X                                                                                                             | 1500.0        |      | 200             | 04/04          |                |      |                |           | =            | CRBC   | XX    |
| LOA RED FIGER SHEET                        |                        | • 0750          | SP-6931-11   | ŝ                                                                                                               | 1500.0        |      |                 | 00/04          |                |      |                |           | A 10         | CRB    | XXO   |
| 104 RED FIBER SHEET                        |                        | •0150           | SP-6931-12   | × 00                                                                                                            | 2000.0        |      |                 | 01/02          |                |      |                |           | 2:           | C 8 8  | X     |
| JUN NEU FJUEN SAEET<br>101 olo ejolo elert |                        | 00100           | 5P-6451-15   | 103<br>103                                                                                                      | 2500.0        |      |                 | 201/02         |                |      |                |           |              | CRBC   | X     |
| LUN MEU TIDEN SHEEL                        |                        | • • • • •       | *1+10 A0-45  | GUN                                                                                                             | 3000.0        |      |                 | 04/04          |                |      |                |           | 0 <b>1</b> 0 | n a C  | X     |

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MATERIAL TEST DATA RY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

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| MFGR S DESIGNATION         | MANUFACTURER         | SPEC.    | TEST RPT NO.       | TEST       | TEST   | TEST | LdW1          | ND OF  | FLASH F | IRF PROP WT | α        | H<br>H     | ATL      |
|----------------------------|----------------------|----------|--------------------|------------|--------|------|---------------|--------|---------|-------------|----------|------------|----------|
|                            |                      | THICK.   |                    | ENVR       | PRESS  | TEMP | ENFR          | REACT  | d TNIO  | T DIST LOS  |          | L<br>C     | CDE      |
| <b>10R REC FIBER SHEET</b> |                      | .0750    | C-1503-01          | X QS       | 62.0   | 1000 |               |        | 567 N   | 666         | -        | 13 C       | P RG X X |
| 10R RED FIBER SHEET        |                      | .0750    | SP-6931-3          | COX        | 165.0  |      |               |        | 586     | 592         | • c      |            | RAGXX    |
| <b>10R RED FIBER SHEET</b> |                      | •0750    | SP-0931-4          | 50X        | 1565.0 |      |               |        | 331     | 331         | 2        | 13 0       | RAGXX    |
| 108 RED FIBER SHEET        |                      | .0750    | SP-6931-5          | COX<br>COX | 4000.0 |      | 50            | 10/00  |         |             | 4        | ្រា        | RBGXX    |
| IOR RED FIBER SHEET        |                      | •0750    | 5 <b>P-69</b> 31-6 | XOS        | 4500.0 |      | 50            | 00/01  |         |             | ٩        | ָ<br>ק     | RBGXX    |
| LOR RED FIBER SHEET        |                      | •0750    | SP-6931-7          | COX        | 5000.0 |      | 50            | 00/04  |         |             | 4        | 0<br>11    | RBGXX    |
| 10R RED FIBER SHEET        |                      | •0750    | SP-6931-H          | ž          | 500.0  |      | 200           | 00/04  |         |             | ۹        | 11         | RBGXX    |
| <b>10R RED FIBER SHEET</b> |                      | •0320    | SP-6931-9          | 603        | 1000.0 |      | 200           | 10/00  |         |             | ۹        | II C       | RBGXX    |
| <b>1018 NICKEL PLATE</b>   | GAC                  |          | 71-2417            | A-50       | 735.0  | 463  |               |        |         |             | -        | 15 0       | NNOWN    |
| <b>1018 MICKEL PLATE</b>   | 6AC                  |          | 71-2417-1          | A-50       | 770.0  | 504  |               |        |         |             | -        | 15 0       | NMOMM    |
| 134115-14-16-17-KYNAR      | WINTEC CORP          |          | 71-2322-1          | COX<br>COX | 3000.0 |      |               | 10/10  |         |             | -        | 10 C       | HCTXX    |
| 134115-14-16-17-HETAL      | WINTEC CORP          |          | 71-2322            | X OS       | 3000.0 |      | 50            | 00/07  |         |             | A        | 0 11       | TG1XX    |
| SS Hat-1                   |                      |          | 71-2511            | A-50       | 767.0  | 516  |               |        |         |             | -        | 15 F       | XXQWI    |
| IT-4PH SS                  |                      |          | 71-2511-1          | A-50       | 786.0  | 514  |               |        |         |             | -        | 15 F       | XXQMI    |
| SS HAT-LI                  | GAC                  | •0750    | 70-2112            | č          | 5000.0 |      | 50            | 00/04  |         |             | ۹        | 11 0       | XXONN    |
| IT-4PH SS                  | GAC                  |          | 76-2112-1          | 20X        | 2000.0 |      |               | 00/04  |         |             | A        | 10 0       | XXQMH    |
| 17-4PH SS                  | GAC                  |          | 70-2112-2          | X DO       | 4500.0 |      |               | 00/04  |         |             | ۷        | 10 DI      | XXQNI    |
| 17-4PH SS                  | GAC                  |          | 70-2112-3          | 80 X       | 5000.0 |      |               | 00/04  |         |             | ٩        | 10 01      | XXQMH    |
| SS Het-L(                  | GAC                  |          | 70-2112-4          | Š          | 6800.0 |      |               | 00/04  |         |             | ∢        |            | XXQMH    |
| 17-4PH SS                  | GAC                  |          | 71-2320            | A-50       | 778.0  | 507  |               |        |         |             | -        | 15 0.      | MUMN     |
| ET-4PH SS                  | GAC                  |          | 71-2320-1          | A-50       | 822.0  | 515  |               |        |         |             | <b>}</b> | 15 0.      | MOMN     |
| IT-4PH SS                  | GAC                  |          | 71-2416            | A-50       | 725.0  | 488  |               |        |         |             | -        | 15<br>0.   | NHOH     |
| 17-4PH 55                  | GAC                  |          | 71-2416-1          | A-50       | 768.0  | 506  |               |        |         |             |          |            | NHCH     |
| 17-4PH W/TFE FEP           | GAC .                |          | 71-2486            | A-50       | 740.0  | 487  |               |        |         |             | -        |            | SHONI    |
| 17-4PH W/TFE FEP           | GAC                  |          | 71-2485-1          | A-50       | 756.0  | 501  |               |        |         |             |          |            | LINDHS   |
| 27-4PM W/TFE FEP           | GAC                  |          | 71-2-86-2          | A-50       | 0.058  |      |               |        |         |             |          |            |          |
| 17-7PH CRES                |                      | -0750    | 70-2210            |            |        |      |               | 407.00 |         |             |          |            |          |
| 17-TPH CRES                | 22                   | .0750    | 70-2219-1          |            |        |      | 50            |        |         |             | 1 <      |            |          |
| 2 Peres                    | LAF                  | CHEC     |                    |            |        |      | 2             |        |         |             | 1        |            |          |
| 17-714 SS                  |                      | 0120     | 70-2116-1          |            |        |      | 2             |        |         |             | 4        |            |          |
| 27-79H SS                  | C. C.                | -0750    | 70-2116-2          |            |        |      |               |        |         |             | <        |            |          |
| SS HAL-LI                  | CAF                  |          |                    |            |        |      | 2             |        |         |             | τ.       |            |          |
| SS Hat-LI                  | GAC                  |          | 70-2116-0          |            |        |      |               |        |         |             | ۹ <      |            |          |
| 175043 PDT. COMP.          | STANDAS              |          | 71-2716            |            | 766.0  | 503  |               | 10.00  |         |             | 4 1      |            |          |
| 115043 POT . CONP.         | S MO WHAT S          |          | 71-2714-1          |            |        | 404  |               |        |         |             | - 1      |            |          |
| 175047 EPCXY               | STERACTORS           |          | 71-2712            |            |        | 214  |               |        |         |             |          |            |          |
| 375047 EPOXY               | SIMUMS               |          | 71-2717-1          | A-50       | 774.0  | 14   |               |        |         |             |          |            |          |
| 2T ADMESIVE                | AIRESEARCH INDST DIV | .0050    | SP-6930            | COX        | 25.0   |      |               |        | 494     | 46          | · c      |            | ****     |
| 27 ADHESIVE                | ATRESEARCH INDST DIV | • 0050   | SP-6030-1          | XOS        | 50.0   |      |               |        | 680     | R0          |          |            | ****     |
| 2T ADHESIVE                | AIRESEARCH INDST DIV | • 0050   | SP-6930-10         | COX        | 4500.0 |      |               | 10/00  |         |             | •        |            | XXXX     |
| 2T ADHESTVE                | AIRESEARCH INDST DIV | 4 00 5 0 | SP-6930-11         | ŝ          | 5000.0 |      |               | 00/04  |         |             |          |            | ****     |
| 2T ADHESYVE                | AIRESEARCH INDST DIV | • 0050   | SP-6930-12         | EDX        | 2000.0 |      | 50            | 00/00  |         |             | ( <      |            | ****     |
| 21 ADHES IVE               | AIRESEARCH INDST DIV | .0050    | SP-6930-13         |            | 3000.0 |      | ) (<br>)<br>) | 10/00  |         |             | 1 <      | 2 3<br>1 5 | ****     |
| 2T ADHESIVE                | AIRESEARCH INDST DIV | • 0050   | Sr-6930-14         | 20X        | 4000.0 |      | ; 0;          | 10/00  |         |             | 1        |            | ****     |

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| MFGR S DESIGNATION                       | MANUFACTURER      |             | SPEC.     | TEST RPT ND.      | TEST<br>ENVR | TEST<br>PRESS | TEST I | MPT N<br>NER R | O OF FL | ASH P | T DI | DP NT<br>ST LOSS | я –<br>Т Т | MA1<br>COD | <u>ب</u> ۳ |
|------------------------------------------|-------------------|-------------|-----------|-------------------|--------------|---------------|--------|----------------|---------|-------|------|------------------|------------|------------|------------|
| 2T ADHESIVE                              | ATRESEARCH INDST  | 01V         | •0020     | SP-6930-15        | ž            | 4500.0        |        | 50             | \$0/0   |       |      |                  | A 1        | LABX       | (XXX       |
| 27 ADHESIVE                              | AIRESEARCH INDST  | 110         | • 0050    | SP-6930-16        | 60 X         | 5000.0        |        | 50             | 1/03    |       |      |                  | 0          | ABX        | XXX        |
| 2T ADHESIVE                              | ALRESEARCH INDST  | D1 \        | • 0050    | SP-6930-17        | š            | 100.0         | N      | 000            | 10/1    |       |      |                  | 0          | ABX        | XXX        |
| 2T ADHESIVE                              | AIRESEARCH INDST  | 01 <i>\</i> | • 0050    | SP-6930-18        | COX<br>COX   | 250.0         | r.     | 8              | 2/02    |       |      |                  | 0          | ABX        | XXX        |
| 27 ADHESIVE                              | AIRESEARCH INDST  | 01 V        | • 0050    | SP-6930-19        | š            | 500.0         |        | 00             | 10/1    |       |      |                  | 0          | L ABX      | XXX        |
| 2T ADHESIVE                              | AIRESEARCH INDST  | 01 V        | .0050     | SP-6930-2         | 60X          | 62.0          |        |                | J       | 54    | 689  |                  | 0          | ABX        | XXX        |
| 2T ADHESIVE                              | ATRESEARCH INDST  | 014         |           | SP-6930-20        | ŝ            | 500.0         |        | 50             | 0/04    |       |      |                  | A L        | L ABX      | XXX        |
| 27 ADHESIVE                              | AIRESEARCH INDST  | VIC.        |           | SP-6930-21        | COX<br>COX   | 500.0         |        | 0              | 0/04    |       |      |                  | A 10       | ABX (      | XXX        |
| 2T ADHESIVE                              | AIRESEARCH INDST  | 01V         |           | SP-6930-22        | õ            | 1500.0        |        | 50 0           | 0/04    |       |      |                  | A L        | L ABX      | XXX        |
| 21 ADHESIVE                              | AIRESEARCH INDST  | 210         |           | SP-6930-23        | COX<br>COX   | 50.0          |        |                | Ψ,      | 59    | 559  |                  | <b>1</b> 0 | JABX       | XXX        |
| ZT ADMESIVE                              | ATTE SEARCH INDST | 210         |           | SP-6930-24        | ŝ            | 200.0         |        |                |         | -72   | 472  |                  | 0          | 3 ABX      | XXX        |
| 21 ADMESTVE                              | ATRESEARCH INOST  | 710         |           | SP-6930-25        | X 00         | 1000-0        |        |                |         | 613   | 516  |                  | -          | X 8 8 X    | XXX        |
| 21 AUMESIVE                              | AIRESEARCH INDSI  | 210         |           | 5P-6930-26        | Š            | 50.0          |        |                |         | 50    | 520  |                  | 0          | 3 ABX      | XXX        |
| ZI AUMESIVE                              | ALTESEAKCH INDST  | 710         | • 0050    | SP-6930-3         | X 09         | 165.0         |        |                |         | 60    | 660  |                  | 0          | 8 A B X    | XXX        |
| 21 AUMESTER                              | AIME SEARCH [NUST | >10         | 0400*     | 5P-6930-4         | Š            | 1500.0        |        | 0,             | 10/0    |       |      |                  | <b>v</b>   | 287 C      | XXX        |
|                                          | AIRESERVEN INUS I | 210         | 0600.     | 2-0669-42         | K DS         | 2000•0        |        |                | 10/0    |       |      |                  | 4          | ABX        | XXX        |
|                                          | AIRESEARCH [NDS1  | 210         | 0500.     | 5P6930-6          | Š            | 2500.0        |        | 0.             | 10/01   |       |      |                  | <b>4</b>   | ABX        | XXX        |
|                                          | AIMESEARCY INUSI  |             | 0400      | 5P-6930-7         | 60X          | 3000-0        |        |                | 10/0    |       |      |                  | ۲.<br>۲    | X B X      | XXX        |
|                                          | ALACSCARCH INUSI  | ×10         |           | 57-6430-8         | ŝ            | 0.00000       |        |                | 10/0    |       |      |                  | ~<br>•     | ABX<br>ABX | XXX        |
|                                          | ALKENTAKON INUSI  | <b>^</b> 10 | 0600.     | 5P-6930-9         | X 0 9        | 4000.0        |        |                | 10/0    |       |      |                  | <b>A</b>   | 282        | ×××        |
| 20 2110 MOUTE TIET                       |                   |             |           | 71-2860           | K B          | 2000.0        |        | 0              | 40/0    |       |      |                  | <b>A</b>   | DTH        | XXV        |
| DO ANG MAGNEL WIKE                       |                   |             |           | 71-2514           | A-50         | 8.4.0         | 514    |                |         |       |      |                  | 1          | E RX       | XXXX       |
| DO ANG NAGNES WERN                       |                   |             |           | 71-2514-1         | A-50         | B20.0         | 201    |                |         |       |      |                  | 1          | E E X      | XXX        |
| BOL CRES STEEL                           | HC FOUTH STEEL CO | •           | • 0750    | 70-2060           | X09          | 1500.0        |        | 50 0           | 0/04    |       |      |                  | A 11       | DTH        | XXQ        |
| 301 CRES STEEL                           | MC LOUTH STEEL CO | •           | •0150     | 70-2060-1         | š            | 1500.0        |        | 0              | 0/04    |       |      |                  | A 10       | DTM 0      | XX Q       |
| SS 106                                   |                   |             | •0750     | 70-2118           | 60X          | 5000.0        |        | 50 0           | 40/0    |       |      |                  | A LI       | DTH.       | XXQ        |
|                                          | GAC               |             |           | 70-2118-1         | õ            | 5000.0        |        |                | 0/04    |       |      |                  | A 10       | 100        | XXQ        |
|                                          |                   |             |           | 70-2118-2         | XOS          | 6400°0        |        | 0              | 0/04    |       |      |                  | •.<br>•    | H10 0      | XXQ        |
|                                          |                   |             |           | 71-2287           | A-50         | 826.0         | 514    |                |         |       |      |                  | - I        |            | XOX        |
|                                          |                   |             |           | 11-2287-1         |              | 0-111         | 203    |                |         |       |      |                  | -          | I          | XXO        |
| SUC UNCO SIECU                           | T NON TAST TANK   |             |           | 10-2050           |              | 0.0001        |        | 200            | 40/0    |       |      |                  | 4          |            | XXQ        |
| 202 CACA SICCL                           | CALVE CEST INUM F |             | 0420      | 1-6602-02         |              |               |        |                |         |       |      |                  | 4          |            | 2202       |
| 302 SS                                   |                   |             | 0150      | 1-2112-01         |              |               |        |                | 40/0    |       |      |                  | 4 4        | 52         |            |
| 302 55                                   | GAC               |             | •         | 70-2117-2         | ž            | 5600-0        |        |                | 40/0    |       |      |                  | 2          |            |            |
| 302 SS                                   | GAC               |             |           | 70-2117-3         | X US         | 6800-0        |        |                | 7070    |       |      |                  | 1 -        |            |            |
| <b>302 SS</b>                            | EAC               |             |           | 71-2283           | A-50         | 746.0         | 496    | ,              |         |       |      |                  |            | E HO       | (X)<br>0   |
| <b>302</b> SS                            | GAC               |             |           | 71-2283-1         | A-50         | 791.0         | 505    |                |         |       |      |                  | -          | MNC        | 77.0       |
| <b>302 5</b> 5                           | GAC               |             |           | 71-2283-2         | A-50         | 770.0         | 503    |                |         |       |      |                  | -          | NO NO      | X          |
| 302 55                                   | GAC               |             |           | 71-2293-3         | A-50         | 754.0         | 497    |                |         |       |      |                  | 1          | NHO 1      | 0XX        |
| 903 CRES STEEL                           | NR DOWNEY         |             | -0750     | 70-2058           | ŝ.           | 1500.0        |        | 0              | 40/04   |       |      |                  | A 10       | HHO C      | XXQ        |
| 303 CRES STEEL                           | NR DONNEY         |             | • 0 7 5 0 | 10-2058-1         | X00          | 1500.0        |        | 20             | 0/04    |       |      |                  | 17 V       | ING I      | XXQ        |
| 20 20 20 20 20 20 20 20 20 20 20 20 20 2 |                   |             | 0670.     | 112-01<br>20-2141 |              | 5000.0        |        |                | 40/0    |       |      |                  |            |            | X C        |
|                                          |                   |             |           | 1413-01           | v ng         | 0.0000        |        | 2              | +0/0    |       |      |                  | 4          |            | ľ X X      |
|                                          |                   |             |           |                   |              |               |        |                | ļ       |       |      |                  |            |            |            |

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| 303 SS<br>303 SS<br>303 SS<br>303 SS<br>903 SS<br>303 SS<br>304 CRES STEEL         |                     |        |           |      |        |     |    |       |  |          |        |         |
|------------------------------------------------------------------------------------|---------------------|--------|-----------|------|--------|-----|----|-------|--|----------|--------|---------|
| 303 SS<br>303 SS<br>303 SS<br>303 SS<br>303 SS<br>304 CRES STEEL<br>304 CRES STEEL | GAC                 |        | 70-2141-1 | COX  | 5000.0 |     |    | 00/04 |  | 4        | Ô      | (X Q M  |
| 303 SS<br>303 SS<br>303 SS<br>303 SS<br>304 CRES STEEL<br>304 CRES STEEL           | GAC                 |        | 70-2141-2 | 60 X | 6800.0 |     |    | 00/04 |  | 4        | 6<br>0 | XXNH    |
| 303 SS<br>903 SS<br>304 CRES STEEL<br>304 CRES STEEL                               | GAC                 |        | 71-2286   | A-50 | 719.0  | 489 |    |       |  | +        | 5      | IND X X |
| 903 SS<br>303 SS<br>304 CRES STEEL<br>304 CRES STEEL                               | GAC                 |        | 71-2394   | A-50 | 773.0  | 464 |    |       |  | F        | 5      | XXOHI   |
| 903 SS<br>904 CRES STEEL<br>904 CRES STEEL                                         | GAC                 |        | 71-2394-1 | A-50 | 791.0  | 508 |    |       |  | -        | 5      | XXOH    |
| 304 CRES STEEL<br>304 CRES STEEL                                                   | GAC                 |        | 71-2394-2 | A-50 | 762.0  | 520 |    |       |  | +        | 5      | XXOH    |
| 304 CRES STEEL                                                                     | UNITED STATES STEEL | •0150  | 70-2034   | Š    | 1500.0 |     | 50 | 00/04 |  | 4        | 10     | XXON.   |
|                                                                                    | UNITED STATES STEEL | •0750  | 70-2034-1 | 60 X | 1500.0 |     |    | 70/00 |  | 4        | 0      | XXQM    |
|                                                                                    | 640                 |        | 71-2284   | A-50 | 741.0  | 508 |    |       |  | -        | ð      | XXOH    |
| 304 SS                                                                             | GAC                 |        | 71-2284-1 | A-50 | 662.0  | 499 |    |       |  | -        | 5      | XXGM    |
| 304 55                                                                             | CAC .               |        | 71-2419   | A-50 | 742.0  | 496 |    |       |  | -        | ð<br>s | XXOM    |
| 304 55                                                                             | CAC                 |        | 71-2419-1 | 0-20 | 608.0  | 505 |    |       |  | -        | 5      | XXOM    |
| 204 55                                                                             | GAC                 |        | 71-2427   | A-50 | 814.0  | 505 |    |       |  | -        | Ĉ.     | XXQFI   |
| 304 SS                                                                             | GAC                 |        | 71-2427-1 | A-50 | 553.0  | 456 |    |       |  | +        | 5      | XXON    |
| 304 55                                                                             | GAC                 |        | 71-2427-2 | A-50 | 0.693  | 504 | -  |       |  | -        | ð<br>v | XXQM    |
| 304L SS                                                                            | GAC                 | •0750  | 70-2154   | COX  | 4500.0 |     |    | 00/00 |  | 4        | ā<br>0 | XXOW    |
| 304L SS                                                                            | GAC                 |        | 70-2154-1 | XCS  | 5000.0 |     | 50 | 40/00 |  | 4        | 5      | XXOMI   |
| 304L SS                                                                            | GAC                 |        | 71-2282   | A-50 | 688.0  | 496 |    |       |  | -        | 5<br>0 | XXQMI   |
| BOHL SS                                                                            | GAC                 |        | 71-2282-1 | A-50 | 803.0  | 514 |    |       |  | +        | 5      | XXQMI   |
| 304L SS CHROKE FINISH                                                              | GAC                 |        | 70-21-0   | 60 X | 2000.0 |     |    | 00/04 |  | 4        | 0      | SHOW    |
| BOAL TIN PLATED                                                                    |                     | .0750  | 70-2221   | Š    | 1500.0 |     |    | 00/07 |  | <        | Б<br>0 | XX OH   |
| BOHL TIN PLATED                                                                    | AK                  |        | 70-2221-1 | 60X  | 1500.0 |     | 50 | 40/00 |  | -        | 5      | XXOH    |
|                                                                                    | EAC                 | •0750  | 70-2124   | ž    | 4500.0 |     |    | 00/04 |  | 4        | 6<br>0 | XXOH    |
| <b>308 55</b>                                                                      | 64C .               |        | 71-2285   | A-50 | 641.0  | 477 |    |       |  | -        | 5      | XXON    |
| 308 55                                                                             | EAC                 |        | 71-2285-1 | A-50 | 703.0  | 490 |    |       |  | +        | ð<br>S | XXON    |
| BIG CRES STEEL                                                                     |                     |        | 71-2695   | 60 X | 1500.0 |     | 20 | 00/04 |  | 4        | 6      | XXOH    |
| 316 CRES STEEL                                                                     |                     |        | 71-2695-1 | ×09  | 1500.0 |     |    | 00/04 |  | 4        | 0      | XXQM    |
| 31¢ 55                                                                             | GAC                 |        | 71-2392   | A50  | 759.0  | 500 |    |       |  |          | 5      | XXQM    |
| 316 SS                                                                             | GAC                 |        | 71-2392-1 | A-50 | 783.0  | 505 |    |       |  |          | 5      | XX QM.  |
| 316 55                                                                             | GAC -               |        | 71-2392-2 | XOS  | 2000.0 |     |    | 00/07 |  | 4        | 6<br>0 | XXON.   |
| 321                                                                                | GAC                 | •0150  | 70-2104   | Š    | 4500.0 |     |    | 00/04 |  | ◄        | 8<br>0 | 10X)    |
| 321                                                                                | GAC                 | -0750  | 70-2104-1 | 50X  | 5000.0 |     | 50 | 00/04 |  | •        | 8      | XON     |
| 321 CRES STEEL                                                                     | UNITED STATES STEEL | •0150  | 70-2036   | Š    | 1500.0 |     | 20 | 00/07 |  | ∢        |        | ŝ       |
| 321 CRES STEEL                                                                     | UNITED STATES STEEL | .0750  | 70-2036-1 | 60X  | 1500.0 |     |    | 40/00 |  | •        | 6<br>0 | XXQU    |
| 347 SS                                                                             | GAC                 | •0750  | 70-2119   | ž    | 2000.0 |     | 50 | 40/00 |  | <        | 0<br>  | XXQN    |
| 241 SS                                                                             | ¢.ac                | .0750  | 70-2119-1 | XOS  | 5000.0 |     | 50 | 00/04 |  | 4        | 6      | XXQU    |
| 542 55                                                                             | EAC                 |        | 70-2119-2 | š    | 5000.0 |     |    | +0/00 |  | 4        | 0      | KX QML  |
| <b>347 SS</b>                                                                      | GAC                 |        | 70-2119-3 | X OS | 6800.0 |     |    | 00/00 |  | •        | 0      | XON     |
| 947 55                                                                             | GAC                 |        | 71-2389   | A-50 | 811.0  | 531 |    |       |  | -        | s<br>S | XXQM    |
| <b>347</b> SS                                                                      | SAC                 |        | 71-2389-1 | A-50 | 740.0  | 499 |    |       |  | <b>}</b> | 50     | XXQM    |
| 410 CRES STEEL                                                                     | ALLEN FRY STEEL CO. |        | 70-2197   | 80X  | 500.0  |     | 50 | 00/00 |  | •        | ō      | HNOW    |
| SS DIA.                                                                            | EAC                 | • 0750 | 70-2113   | COX  | 2000.0 |     |    | 00/00 |  | 4        | ō<br>0 | INC XX  |
| ALG CRES STEEL                                                                     | PACIFIC METALS      | .0750  | 70-2204   | Š    | 1500.0 |     |    | 40/00 |  | 4        | 00     | XXONT   |
| 416 CRES STEEL                                                                     | PACIFIC METALS      |        | 70-2204   | CO X | 1500.0 |     | 50 | 40/00 |  | ∢        |        | XXOW    |

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MATERIAL TEST DATA BY MANUFACTURER S DESIGNATION AS OF 31 JAN 72

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| MFGA S DESIGNATION        | MANUFACTURER           | SPEC.<br>THICK. | TEST RPT NO.                  | TEST<br>ENVR | TEST<br>PRESS   | TEST<br>TEMP | 1 MP T<br>ENER | NO OF<br>REACT | FLASH FIRE<br>Point Pt | PROP 1 | HT F | <b>⊢</b> ⊢           | MATL<br>CODE   |      |
|---------------------------|------------------------|-----------------|-------------------------------|--------------|-----------------|--------------|----------------|----------------|------------------------|--------|------|----------------------|----------------|------|
| 420 55.00-5-763<br>430 55 | 6 A C                  | •0750           | 70-2108<br>71-2422<br>71-2422 | 60X<br>A-50  | 4500.0<br>723.0 | 197          |                | 00/04          |                        |        |      | 255                  | CX CHINO       | ×    |
| 430 55<br>430F CRES STEEL | VAL<br>A.M. CASTLE CO. | .0750           | 70-2190                       |              | 1500.0          |              |                | 00/04          |                        |        | •    | 2                    | CXONNO         | ×    |
| 430F CRES STEEL           | A.M. CASTLE CO.        | •C750           | 70-2190-1                     | ŝ            | 1500.0          |              | 50             | 00/04          |                        |        | •    | , 11<br>- 12<br>- 12 | XOHHO          | × ,  |
| 440 SS                    | GAC                    |                 | 71-2317<br>71-2317-1          | A-50         | 50/•0<br>818•0  | 514          |                |                |                        |        | -    | 5                    | XONNO          | < ×  |
| 1405                      | GAC                    | •0750           | 70-2107                       | GOX          | 2000.0          |              |                | 40/00          |                        |        | •    | 2                    |                | ×    |
| 1100                      | GAC                    | •0750           | 70-2107-1                     | ŝ            | 2000.0          |              | 5              | 40/00          |                        |        |      |                      | XONNO          | хх   |
|                           | 6 MC                   |                 | 5-1012-01                     | X            | 4500-0          |              | R              | 40/00          |                        |        |      | 2                    | NUNX           | ж    |
| AAAC DO-C-TA3             | GAC                    | -0750           | 70-2111                       | XOS          | 5000.0          |              | 50             | 40/00          |                        |        | -    |                      | XONNO          | ×    |
|                           | CAC                    |                 | 71-2418                       | A-50         | 717.0           | 435          |                |                |                        |        | •    | 5                    | X ONNO X       | ×    |
| 25 944<br>25              | GAC                    |                 | 71-2418-1                     | A-50         | 729.0           | 488          |                |                |                        |        | • •  | 5                    | XONNO          | ×?   |
| × *** 55                  | THE ELECTROLIZING CO   |                 | 71-2425                       | A-50         | B02.0           | 202          |                |                |                        |        |      |                      |                | K)   |
| 446 SS                    | THE ELECTROLIZING CO   |                 | 71-2425-1                     | A-50         | 805.0           | 202          |                |                |                        |        |      |                      |                | < >  |
| 5052-H32                  |                        |                 | 71-2594                       | 05-4         | 777.0           | 523          |                |                |                        |        | ·    | <u></u>              | UTXXX<br>OTXXX | < 14 |
|                           | ALLEN EAV STEEL CO.    |                 | 70-2207                       | X            | 1500-0          |              |                | 00/04          |                        |        | -    | 2                    | XQNNO          | ×    |
|                           | ALLEN FRY STEEL CO.    |                 | 70-2207-1                     | XOS          | 1500.0          |              | 50             | 00/04          |                        |        | -    |                      | XONNO          | ×    |
| 24100 31566               | ALCOA                  |                 | 71-2746                       | ž            | 2000.0          |              |                | 00/04          |                        |        | -    | 0.<br>               | FIMAX          | ×    |
| CANTER AN CO PLATED       | EAC                    |                 | 70-223                        | XDS          | 4500.0          |              |                | 00/00          |                        |        | -    | 20                   | DIMAH          | S    |
|                           | AMDEPENDENT INK CO     |                 | 71-2687                       | Š            | 1500.0          |              | 50             | 00/04          |                        |        |      |                      | APGTX          | ×    |
| TOX DLK MARKING INK       | INDEPENDENT INK CO     |                 | 71-2687-1                     | 20X          | 1500.0          |              |                | 01/01          |                        |        |      |                      | APGTX          | ×    |
| 32 AL/18 NI               | <b>BAAZE ALLOY</b>     |                 | 71-2339                       |              | 0.008           | 6<br>6<br>6  |                |                |                        |        |      | <u> </u>             |                |      |
| - 32 AL/18 MI             | BRAZE ALLOY            |                 | 71-2339-1                     | A-50         | 818.0           | 502          |                |                |                        |        |      | -<br>C               |                | Ş    |

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# APPENDIX III - SELECTED SUMMARIES, CONCLUSIONS, AND RECOMMENDATIONS EXCERPTED FROM THE INDICATED REFERENCES.

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## Attwood and Allen (1971)

#### "CONCLUSIONS AND RECOMMENDATIONS

(1) The dependence of the spontaneous ignition temperature, SIT, of a material on test techniques such as heating rate and gas flow rate, and on sample conditions such as powder or block, new and clean or used and 'aged', has been demonstrated; but no consistent trends were apparent.

(2) Previously reported large decreases in SIT with increase in pressure above atmospheric are likely to have been partly caused by the change in test technique. With few exceptions the 'Pot' test gives higher SI'I's than the 'Bomb' test, hence the use of the 'Pot' test alone, to assess the suitability of materials for use in oxygen, cannot be recommended.

(3) Nylon is not recommended for use in high pressure oxygen. Even when new or unused its SIT can be below 300°C, and wear and 'ageing' during use can apparently lower the SIT to 155°C. These could have been contributory factors to the six fires from which this investigation stemmed.

(4) ZX32 a material suspected in one fire, did not ignite in any test.

(5, The SITs of several relatively new silicone materials have been measured and generally increase with an increase in oxygen pressure. As this is the reverse of the behaviour of many non-silicone materials tested in 1950, silicone materials might well be used more widely in high pressure oxygen systems. However, only limited tests have been made so far: further investigation would be necessary before any definite conclusions could be drawn.

(6) The need for a test or set of tests by which to define the compatibility of a material with oxygen has been discussed and a programme of work aimed at establishing such a test has been outlined. An interim standard test has been proposed and a method of interpreting any spread of results suggested."

## Baum, Goobich, and Trainer (1962)

## "Conclusions

1. Teflon and Kel-F are both compatible with high-pressure oxygen systems with regard to chemical reactivity, and they manifest a high degree of stability. Viton, however, shows questionable compatibility although an insufficient number of samples were tested in this program to draw firm conclusions. AiResearch also reports some failures with Viton O-rings but nevertheless they are using them as seals in the Mercury control equipment. In any case, neoprene seals were found to be incompatible with high-pressure oxygen.

Pure Teflon suffers from certain physical weaknesses. It tends to cold flow very easily, and because of its high ductility and lubricity, it is easily extruded out of shape when unconfined. Neither does a thin, unsupported Teflon disk have sufficient strength to prevent collapse when high-pressure forces are applied.

Kel-F has sufficient strength and rigidity to partially overcome the cold-flow problem for short periods and it can withstand instantaneous impacts from flow that would cause Teflon to collapse or extrude. However, Kel-F does not appear to be sufficiently ductile for seal use, nor does it provide the lubricity of Teflon. A possible solution, aside from the conventional compounding of Teflon with ceramic, glass fiber, and asbestos cloth, is use of a new compound of Teflon and Kel-F. This compound consists of 80 parts Kel-F and 20 parts Teflon. According to the developer, Minnesota Mining and Manufacturing Corporation, it is sufficiently strong to resist cold flow, is more ductile than pure Kel-F, and retains the lubricity of Teflon. However, both Kel-F and Teflon should be employed as seals only when closely confined (like O-rings) to prevent possible collapse or cold flow.

2. Apparently the hydrocarbon-oxygen mixture is a rather complex one in that merely mixing the two constituents does not appear to be the only thing necessary to initiate a chemical reaction. Case histories of storage vessels at 2000 psi or less suddenly exploding for no apparent reason seem to substantiate the suggestion that a third factor or sequence of events must be present. However, the triggering agent may not be the same in all cases. The only method whereby the explosive nature of hydrocarbon-oxygen mixtures may be properly and more fully understood is through an extensive series of carefully controlled deliberate explosions. Studies of this type have been conducted, but never at pressures of 500 atmospheres.

On the basis of the data available from the present experiments, the following can be concluded:

(1) Below 400 F concentrations of 50 ppm or less are not highly reactive and do not constitute a major danger.

(2) If a reaction did occur, it was either too rapid, too slow, or too slight to be detected by visual readings of the pressure gage or by temperature fluctuations recorded by the thermocouple. Baum, et al. (Continued)

(3) If a reaction did occur, it did no<sup>+</sup> ge to completion. This conclusion is supported by the fact that traces of hydrocarbon were indicated in most gas analyses. The reaction may not have been sustained for two possible reasons: (1) because of the low concentration, the gas was too finely diffused and could not sustain a flame front and (2) the total heat of reaction was small and was too quickly dissipated to "set off" the remaining unburned gases.

3. On the basis of the five evaluations just discussed, the four metals considered can be rated in the following order in terms of their possible application in high-pressure oxygen systems:

| Stainless steel (Type 316) | Good+        | Shows sufficient strength and<br>ductility for pressure-vessel<br>use; has low oxidation rate<br>and good erosion resistance                                                                                                                                                                |
|----------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monel                      | Good-        | Is less strong but sufficient<br>where weight is not a restrict-<br>ing factor; has lowest oxidation<br>rate                                                                                                                                                                                |
| Brass                      | Poor to fair | Has insufficient strength for<br>lightweight pressure-vessel<br>application, but demonstrates<br>good retention of original<br>physical properties; good oxi-<br>dation resistance in dry atmos-<br>pheres but poor resistance in<br>moist atmospheres; has only<br>fair erosion resistance |
| Pure copper                | Very poor    | Too weak to be used for pressure<br>vessels; poor retention of physi-<br>cal properties; has high auto-<br>ignition temperature but also<br>has high oxidation rate when<br>exposed for long periods                                                                                        |

The above rating is based on the investigation and analysis of only a small sampling of each metal. More extensive and detailed investigations are required to determine quantitative results. Qualitatively, on the basis of the experiments performed, only stainless steel and Monel are acceptable alloys. Brass and pure copper, although possessing some desirable characteristics, should not be used because of other factors which cannot be sufficiently compensated.

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Baum, et al. (Continued)

4. It is evident on the basis of the data gathered that electrostatic charges due to high-pressure oxygen flow are not significant in themselves. However, some factors which arise because of the flow of gas must be seriously considered. One possible problem is ozone formation caused by the cooling of the gas and the presence of electrostatic charges. The ozone molecule is much more active, chemically, than ordinary oxygen and therefore likely to lower the ignition temperature. A more important factor is the presence of dust or liquid moisture in the gas stream. It has been shown that gases passed through a pin-hole orifice under a pressure head of 1800 psi invariably show a strong electrostatic charge only when either dust or liquid moisture is present in the gas stream. These charges may be sufficiently large to cause ignition.

In the experiments performed at Battelle, some dust particles were present in the gas stream but probably they were not in sufficient quantity to increase the electrostatic charge greatly. Of course, the longest flow period was only 8 seconds and the pressure was not constant during the entire period.

Because the danger of detonation or chemical reaction being initiated by an electrostatic charge is potentially large, further investigations shoul be performed but with larger volumes which will permit longer flow periods. Also, attempts should be made to control and measure the amount of dust of moisture in the stream to compare the effect on the charges generated. In general, however, regardless of the negligible charge generated, equipment should be grounded wherever possible.

5. Rapid heating due to gas surging into confined spaces can produce a major hazard. During the experiments at Battelle, a pressure regulator failed and burned under surge conditions. Also Aikesearch discovered that many materials including neoprene and Viton reacted chemically when impacted by a surging gas at 8000 psi.

However, there is also evidence that at lower pressures, or when the receiver volume is comparatively large, the effect of surge compression is minor. This conclusion is supported by the results of the surge experiments' at Battelle and similar experiments performed at AiResearch.

On the basis of the experimental results and data available, it can be concluded that the rise in temperature due to adiabatic compression to 8000 psi is probably not sufficient to cause large masses of metal to ignite. However, the possibility of thin sectioned metal wire and of polymers such as neoprene igniting is great. Also the danger of organic or hydrocarbon contaminants chemically reacting is serious since many of these have ignition temperatures below 500 F, especially in high-pressure gaseous oxygen.

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Baum, et al. (Continued)

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6. Since the basic aims of the research were to evaluate the relative safety of 7500-psi gaseous oxygen systems and to identify the hazards which can be expected in their operation, the conclusions listed below concern these subjects specifically.

Although some of the research results indicate that r lative safety can be maintained apart from absolutely ideal conditions, it cannot be assumed that high standards of cleanliness and handling technique are not desirable. Whenever ideal conditions and procedures are possible, they must be insisted upon. However, although danger increases with less ideal conditions, certain compromises can sometimes be tolerated. Only through continued research and through accumulated engineering experience can a more confident assessment of the extent of these allowable compromises be made. Until the time that further research and engineering provides additional information for formulation of recommendations, the conclusions given below can be used as general guides:

(1) Contaminated oxygen gas at 7500 psi, as investigated in this program and under the environmental conditions imposed when considered independently of the equipment or system employed, is relatively safe from spontaneous combustion or deconation.

(2) Hazardous chemical reactions of 7500-psi oxygen gas with foreign elements seem to be dependent upon conditions other than simple mixing, proximity, or high-velocity flow. Temperature is believed to be the most critical variable and the minimum temperature at which a reaction will occur is in turn dependent upon the existing pressure.

(3) Hazards and difficulties encountered in the operation of high-pressure gaseous oxygen systems seem to be attributable primarily to poor system design and to the use of poorly designed equipment.

In addition to the general conclusions above the following more technical and specific conclusions have been drawn:

(1) Absolutel clean, dust-free atmospheres are not essential to safe operation.

(2) Concentrations of hydrocarbons in the order of 50 ppm or less are not dangerously reactive.

(3) Electrostatic charges caused by short flow periods through a small orifice appear to be negligible.

(4) Stainless steel and Monel are acceptable materials of construction.

(5) Uncoated or unplated copper appears to oxidize too readily to be used extensively.

(6) Although cases of combustion involving Teflon and Kel-F have been reported, the experiments conducted show that these are acceptable nonmetallic scaling materials.

## RECOMMENDATIONS

Two primary recommendations have been formulated on the basis of the conclusions presented above.

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(1) A broader, more detailed study of materials compatibility with 7500-psi oxygen gas should be pursued. This study should be an attempt to derive a more exact understanding of the conditions that initiate combustion. Extensive experimentation with stainless steel, Monel, anodized aluminum, Teflon compounds, Kel-F compounds, and various thread lubricants and sealants should be conducted to permit a proper statistical analysis. These experiments should have two objectives:

(a) Determination of the spontaneous ignition temperature under static conditions and after various periods of exposure.

(b) Determination of the spontaneous ignition temperature during surge conditions and evaluation of the influence of the volume to surface-area ratio.

(2) Because of the inadequacy of available equipment to provide reliable, long-time performance for absolutely leakproof operation, a development program should be initiated. This program should be planned to investigate critical design criteria. The components that require further study, in estimated order of priority, are:

- Fittings
- Valves, manual and remote
- Lightweight pressure vessels
- Regulators."

Guter (1967)

#### "SUMMARY AND DISCUSSION

Ignition temperatures in high pressure gas were determined using a stainless steel bomb in which samples could be raised to the ignition temperature in a few minutes. The effect on ignition temperature of changes in total pressure, rate of heating, "ageing", i.e. prolonged storage of material in oxygen under pressure, oxygen concentration, and the physical state of the sample were determined in the high pressure apparatus. A simpler apparatus called the 'pot' ignition apparatus was developed for the rapid determination of ignition temperatures in oxygen at atmospheric pressure.

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The many materials examined have been classified in the following five groups:

- 1. Lubricants, including thread sealing compounds.
- 2. Natural and Synthetic Rubber Hose Materials.
- 3. Polymers.
- 4. Valve Seat materials.
- 5. Metals and Alloys.

The ignition temperatures of the materials in Class I were relatively unaffected by changes in oxygen pressure. The Aroclors (chlorinated diphenyls) were particularly resistant, and had ignition temperatures above 400°C. If their other properties are satisfactory they should prove suitable for use as lubricants and hydraulic fluids in oxygen systems. Acheson Grease 4.30 and the Ministry's anti-seize and sealing compound also had high ignition temperatures which were unaffected by pressure. For this reason they would be preferred to the silicone greases for use in oxygen.

The ignition temperatures of the rubber hose materials in Class II were all considerably reduced by increasing the oxygen pressure, except in the case of silicone rubber which ignited above 300°C. The natural and synthetic rubbers, other than silicone, were found to ignite at temperatures below 200°C in oxygen at pressures of 100 atmospheres or higher. The ignition temperatures were con-iderably reduced if traces of the fabric used as reinforcement in the completed hose were included with the sample. Increases in heating rate led to significant reductions in the ignition temperatures of hycar, neoprene and BTR Hose (Specification 1180). Provided certain precautions are strictly observed it is suggested that rubber hoses may be used with high pressure oxygen.

Included in Class III were Teflon, Kel-F and phosphorylated polyvinyl alcohol which were the most resistant non-metallic materials examined. They failed to ignite in oxygen at 250 atmospheres when heated to 350°C.

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Guter (Continued)

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In the 'pot' test they sometimes ignited at temperatures above 500°C. Increasing the oxygen pressure to 175 atmospheres reduced the ignition temperature of most of the other materials included in Class III, but with polythene, nylon and perspex a further increase in pressure to 250 ' atmospheres caused only an insignificant increase in the ignition temperature. Polythene, red vulcanised fibre and rosin bonded fabric were also examined in air; the ignition temperatures in air were found to be rather higher than in oxygen but no definite relationship between the partial pressure of the oxygen and the ignition temperature of these materials was obtained. Special ageing experiments provided interesting results, but unfortunately did not yield general conclusions.

The materials in Class IV with the exception of GACO seating materials had relatively low ignition temperatures. The much higher ignition temperatures obtained with some of the materials in Class III suggest that they may be preferred for making valve seats, provided their mechanical properties are satisfactory.

None of the metals and alloys in Class V ignited in oxygen at 250 atmospheres when heated alone to 350°C. Copper, magnesium alloy and mild steel turnings ignited in the presence of a drop of oil if heated to about 200°C in oxygen at 250 atmospheres.

Changes in gas flowrate, oxygen concentration, heating rate and physical state had no marked effect on ignition temperature for most of the materials examined. Exceptions were some Class II materials which were affected by heating rate and Buna which in the form of shavings ignited at temperatures more than 100° below the corresponding ignition temperatures for samples in block form.

Materials in Classes II, III and IV word examined by the 'pot' test. In general, it was found that the higher the 'pot' ignition temperature the higher was the ignition temperature in high pressure oxygen. Unfortunately the 'pot' ignition temperature gave no indication of the effect of pressure in the range 50 - 250 atmospheres on ignition temperature.

No attempt was made to examine the behaviour of the materials under actual working conditions at high pressure. It is not possible therefore to relate the ignition temperatures observed under controlled conditions to the hazards associated with the everyday use of combustible materials in high pressure oxygen. However as no materials ignited at a temperature below 100°C and vary few below 150°C in oxygen at pressures up to 250 atmospheres it seems highly probable that with careful selection a number of materials which are not entirely non-inflammable can be safely used in oxygen at high pressures. When using such materials it is important to avoid any sudden changes in pressure or temperature, and to ensure the absence of any inflammable dust or other material more susceptible to ignition, which might initiate combustion.

#### Guter (Continued)

The possibility of fires in high pressure oxygen systems would be largely avoided by measures that would prevent conversion of the free energy of the compressed gas into heat. If this could be achieved in the design of equipment then the ignition characteristics of the materials that come into contact with the oxygen would be of secondary importance. Until this ideal is reached, safety in the use of high pressure oxygen will depend not only on the selection of materials with a high ignition temperature, but on careful attention to the design of the apparatus, and upon the observance of a number of elementary but essential precautions. As the starting-point of combustion will clearly be determined by the material of lowest ignition temperature which happens to be present, it is important to exclude carefully all traces or organic dust and oil. Particles of dust and fibre introduce a special hazard in connection with the temperature rise which occurs on adiabatic compression in a closed tube. In this case the rise in temperature of the gas may be considerable, but its heat capacity is small. The gas is therefore unable to raise appreciably the temperature of any massive body with which it is in contact, and its heat is rapidly dissipated. A small particle of fibre in the gas stream, however, can be raised to a temperature approaching that of the gas, and can therefore readily be ignited. When this occurs it will cause the ignition of any other inflammable material in its vicinity.

The work described in this report does not provide a basis for choice of materials for use in high pressure oxygen without regard to the circumstances of use, but it is hoped that it will serve as a useful guide for the selection of the best materials for a particular duty, and the range of conditions under which they can be safely used."

(Parts of the summary and discussion are omitted.)

Johnston (1970)

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"CONCLUSIONS:

1. No great technology differences exist among the fields reviewed.

2. Breathing oxygen systems utilized today have been quite successful in meeting their intent. The majority of the relatively few failures which have occurred have been traced to poor handling practices.

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3. The success of today's designs has been the result of designing by experience, largely without thorough scientific understanding.

4. Improvement in and standardization of specifications and guidelines are needed in the following areas:

a. System design requirements as a function of pressure, and use.

b. Materials requirements and a suitable list of materials for specific applications.

c. Materials test methods which will verify suitability of materials for the given applications.

d. Accurate testing methods for determination of a given systems contamination level.

e. Allowable contamination levels and materials including particle sizes for the various system pressure levels."

Kimzey (1970)

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## "CONCLUDING REMARKS

The literature available prior to the Apollo 13 incident indicates that little work has been performed on electrically induced ignition of metals. Much work has been done on impact ignition, particularily in LOX environments; however, much of the data are not directly usable due to the wide variety of eleptrimental techniques employed. Sufficient work has been performed to permit the following observations:

1. The ignition temperature of a metal in LOX is independent of pressure, convection, and oxygen percentage.

2. The effect of halogen impurities on the ignition temperature of metals cannot be determined from existing data.

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3. Ignition temperatures, like boiling points, or melting points, appear to be depressed by the addition of impurities."

### Marzani (1968)

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### "CONCLUSION

The following conclusions are made with regard to material evaluation:

From a fire-resistance standpoint, TFE is superior to the other materials tested.

• CTFE is nearly as high in fire resistance. Polyvinylidene fluoride and the polyimides are intermediate. Polyurethanes, ethylene-propylene rubbers and polyethylene are lowest.

• The inclusion of fire-resistant materials in composites with less fire-resistant materials does not insure that the composite will have improved fire resistance.

• Of the parameters affecting combustion, pressure has the greatest effect on material ignition temperature. Sample size is important in determining the flammability limits. Sample geometry can be an important factor in ignition temperature and reaction kinetics.

• Materials ignite more readily at lower pressures in oxygen than in air. Above 2400 psig the difference disappears.

The following conclusions are made with regard to the method of study:

• The modified high-pressure bomb satisfactorily provided reproducible spontaneous-ignition data on small samples of solid materials in an oxygen atmosphere. Data indicate a favorable degree of correlation with published data.

• This test method should be considered in any effort to establish a standardized test procedure for determining the spontaneous-ignition temperatures of solid materials at elevated pressures.

• A standardized test will not necessarily yield a result which will be applicable under every condition of material usage."

## Nihart and Smith (1964)

### "CONCLUSIONS

The following conclusions are based upon the results of the present experimental test program and other data referenced in this report.

1. The spontaneous ignition temperatures of the materials tested are essentially the same in 7500 psi oxygen as in 2000 psi oxygen.

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2. The relative resistance of metals and alloys to ignition and combustion in 7500 psi oxygen agrees in general with results obtained in earlier Linde test work at 2000 psi and with the results of Dean and Thompson (1961) except for aluminum.

3. Only three thread lubricants might have possible safe application in 7500 psi oxygen. These lubricants are Dixon's Flake Graphite No. 1, Burnil Brand Microplates, and Almasol Powder. Further information on their lubricating properties and thermal stability would need to be known before a complete recommendation could be made. One drawback to this type of lubricant is that there is always a possibility of particulate matter inadvertently getting into the high pressure system.

4. The only thread sealant tested in this program which might be recommended for 7500 psi oxygen service would be 50-50 soft solder (which could be used in tinning threads). TFE tape is not recommended because of the possibility of pieces getting into the gas stream.

5. Recognizing that some type of packing is needed for static and dynami' seals, glass-filled TFE would be the only material presently recommended for use. Even its use presents a hazard and it should only be used when tightly confined.

6. Inconel alloy 600, brass, Monel alloy 400, and nickel are recommended for use in 7500 psi oxygen. Other metals might be acceptable if plated with nickel, silver, or gold. Monel alloy K-500 might also be acceptable but it was not given the promoted ignition test in 7500 psi oxygen.

7. Of the materials tested, stainless steel and aluminum are the least satisfactory for use at oxygen pressures of 7500 psi.

8. Copper is not recommended because of the results of Baum, Goobich, and Trainer (1962). Other copper alloys might be acceptable material but would need to be tested.

9. Electrostatic charges developed during the charging of a small high pressure receiver were found to be negligible.

10. The simulated system was pressurized with oxygen to instantaneous pressures ranging from 665 to 7100 psi without incident. Pressurization time varied from 0.5 to 0.21 seconds.

Nihart et al. (Continued)

The hazards considered to be most responsible for ignitions in oxygen systems are:

a. Adiabatic Compression - High temperatures may be produced when low pressure oxygen is suddenly brought to a high pressure, such as when a valve is suddenly opened between a high pressure and a low pressure portion of the system. These temperatures can be high enough to ignite organic materials or small particles of metal.

b. Particulate Matter - Particles may be accelerated in a high velocity stream and impacted against organic materials or metallic burrs, projections, etc. Their energy is converted to high local temperatures by this impact with subsequent ignition of associated materials. Even the particles themselves might be ignited if they were either organic or metallic in nature.

These hazards may be substantially reduced by proper cleaning of the equipment initially, use of filters (especially ahead of regulators) minimum use of organic material, and judicious operation of valves and regulators to prevent rapid increases in pressure.

There are other mechanisms by which ignition may occur but these have been well covered by Reynales (1959).

#### RECOMMENDATIONS

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1. Further study should be made on the copper alloys to define more clearly their compatibility and applicability in 7500 psi systems.

2. More tests should be conducted on metals and alloys to determine the effect of geometric configuration on the relative ignition temperatures.

3. There is need for further investigation into thread lubricants and thread sealants. This study would need to cover their physical properties such as lubrication and sealing qualities as well as their compatibility with oxygen. Development of special lubricants and sealants might be required.

4. A program is needed to develop and build better hardware constructed of materials more compatible with high pressure oxygen. The program should cover any and all equipment which would be used in a 7500 psi oxygen system."

#### Ordin (1971)

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#### "SAFETY RECOMMENDATIONS

Although the solution to many of the problems which caused the oxygen mishaps cannot be specifically prescribed withou. further research and development efforts, several practical safety regulations are recommended to increase the operational safety. These recommendations based on specific mishaps include the following: いたたいしょ

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(a) Prevent the cross connecting of fuel, oxygen and purge lines by means of designs and permit no subsequent uncontrolled revisions by maintenance personnel.

(b) Suitably restrain all flexible lines at specific intervals.

(c) Prevent the venting and disposal of oxygen near electrical systems or other ignition sources capable of initiating and promoting fires.

(d) Provide controlled value operation of oxygen values to limit generation of heat due to gas compression.

(e) Label pressure lines with values of operational, proof, and design burst pressure.

(f) Conduct pre-operational hazard analyses on liquid and gaseous pressure systems before checkout, operation or maintenance.

(g) Insure verification of pressure relief before liquid and gas lines are disconnected.

(h) Emphasize hazards of operations in oxygen systems through training. Many operating personnel are not fully aware of the hazards associated with oxygen systems.

(i) Maintain records of any rework on tanks, lines and related equipment. The operations performed should be available to evaluate continued use of equipment.

(j) Fluids used should be identified and environmental chamber operations include a verification of the composition of the gas mixtures employed.

(k) Liquid oxygen loading rates should be established commensurate with duct and equipment fatigue capacities. Material failures have been induced by low stress, high frequency vibrations caused by excessive fill rates. Instrumentation should be installed to measure and monitor induced vibrations. Orain (Continued)

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(1) Standards should be established interfacing the electrical systems to the oxygen systems. Problems of electrical arcing of interior lights and fixtures should be resolved.

(m) Insure availability of recent information on results of testing and of field experiences on the compatibility of materials with oxygen."

## Schwinghamer (1971)

## "CONCLUSIONS

Without a satisfactory solution to the problem of materials reaction sensitivity in LOX and GOX, highly reliable expendable launch vehicles and non-reusable spacecraft would not have been possible. The basic test method which accomplished this end was the ABMA and MSFC-SPEC-106B. As a result of the Apollo 13 incident, increased emphasis is being placed on materials compatibility in a high pressure GOX environment.

Besides impact sensitivity of materials, approximately adiabatic compression conditions can contrive to induce materials reactivity. Tests run at high pressure using the new MSFC tester have so far shown that:

1) The materials used in the tests cited in Table II showed an inverse relationship between thickness and impact sensitivity.

2) Of the materials tested to date, several tend to indicate that impact sorritivity in GOX is more pressure dependent than in LOX.

3) The impact sensitivity of the materials tested to date in GOX at the pressures tested showed enhanced impact sensitivity with higher pressure.

4) The rank ordering of the materials tested so far in LOX up to 1000 psia  $(6.8 \times 10^6 \text{ Newtons/m}^2)$  is the same as the rank ordering resulting from tests in LOX at 14.7 psia (9.5 x  $10^4 \text{ Newtons/m}^2$ ).

While there is agreement on the syntactical basis of probability theory as it applies to LOX/GOX compatibility testing, there is indeed the danger of a disparity between the syntactics and the explanation and interpretation of these signs in terms of the real-world. Statistics can be a useful indicator if cautiously and correctly applied. There is the distinct danger of a retreat to, or a preoccupation with, "cure all" test methods and techniques, r canwhile disregarding the necessity for hard data acquired from statistically meaningful numbers of tests.

Future plans at MSFC include investigation and research on a variety of LOX/GOX sensitivity testing methods and techniques. It is expected that configuration testing will continue to be necessary in special situations.

In the final analysis, the many questions of materials compatibility in LOX and GOX will undoubtedly continue to be crucial considerations to the aerospace designer concerned with our future space vehicles and spacecraft."

## White and Ward (1966)

## "SUMMARY AND CONCLUSIONS

The ignition of metals in oxygen and oxygen atmospheres was reviewed from the viewpoints of (a) methods that have been used to study behavior, (b) experimental values that have been obtained, and (c) the status of theories that permit the calculation of ignition temperatures.

While no clearcut definition of ignition temperature has been developed, it appears probable that a definite or an absolute ignition temperature does exist for a particular metal-oxygen system. In general terms, if the energy input as converted to heat is greater than the heat dissipation, a temperature will be reached at which ignition of the metal will occur. Practically. this temperature appears dependent on many factors some of which are relatively static (e.g., atmosphere, composition, purity, metal surface area and condition, etc.) and others that may be dynamic (e.g., pressure, impact, impact velocity, vibration, etc.). No standard test procedures or methods have been developed to evaluate the ignition temperatures of metals. The net result is that varying values have been reported for the same or similar metal-oxygen systems.

Despite these differences, the following generalizations can be offered on the basis of the experimental evaluations performed to date:

(1) All metals, with the possible exception of gold and platinum, can be expected to ignite in oxygen at some elevated temperature.

(2) Alloys of several systems have been shown to ignite in oxygen systems at relatively low temperatures and some at LOX temperatures if some external cource of energy input is present. Generally, the presence of a fresh metal surface is also necessary to cause ignition at these low temperatures. These ignition-sensitive alloy systems include the alloys of titanium, zirconium, thorium, uranium, lead, tin, and magnesium.

(3) A number of secondary energy input sources have been shown to cause ignition of these sensitive alloys in oxygen systems. There sources also probably produce a fresh metal surface and are identified as follows:

#### In Gaseous Oxygen

Electric spark Puncture

In Liquid Oxygen

Mechanical impact Explosive shock. Stress rupture Explosive shock.

Puncture

White et al. (Continued)

(4) A number of other methods of secondary energy input and methods of exposing fresh metal do not produce ignition. These are as follows: South and the second second

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In Gascous Oxygen

High-velocity flow

Low-cycle fatigue cracking

Impact on the cutside of a container without puncture

High-velocity flow through a small orifice

Rapid pressurization

In Liquid Oxygen

Impact on the outside of a container without puncture

Rapid pressurization

Machining

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Friction and galling

Tensile rupture

Mechanical vibration

Sonic vibration

Ultrason: Vibration

High-version ow through an orifice.

(5) An increase in pressure of a gaseous oxygen system tends to promote ignition at lower temperatures or with lower secondary energy inputs. The dilution of oxygen with an inert material, gaseous or liquid, terds to reduce sensitivity of metals in oxygen systems. However, propagation is not affected much until the dilution is very great, on the order of 90 percent inert gas or liquid.

(6) A number of alloy systems have been shown to be relatively insensitive to ignition in an oxygen environment either at high temperatures or at low temperatures with high accondary energy inputs. These alloy systems include: austenitic stainless stoels, nickel alloys, cobalt alloys, copper alloys, and silver alloys. Alloys of these systems show the best service record and also show the least sensitivity in laboratory tests.
## White et al. (Continued)

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(7) Another group of alloys appears to be somewhat intermediate between the sensitive and insensitive groups cited in Items 2 and 6. This group includes aluminum alloys, the 400 series stainless steels, and carbon and low-alloy high-strength steels. These materials would be expected to find limited use in relatively nonsensitive applications."

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(Remaining discussion has been omitted).