Seal Selection Guide

ELASTOMETRIC SEAL CONSTRUCTION

This seal selection guide is separated into four discrete sections: Gasket Seals for Couplings, Press Seals for Vic-Press®, Valve Seals for Valves, and General Definition/Seal Material Selection.



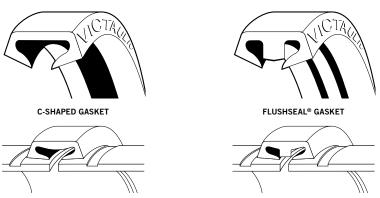
SECTION A:
GASKET SEALS FOR COUPLINGS

The grooved piping concept is simple and reliable. The coupling housing performs several functions as an integral part of the pipe joint. It contains the gasket, which is fully enclosed, reinforcing and securing it in position for proper sealing. The housing also engages on the pipe around the full pipe circumference and creates a unified joint while providing the advantages of mechanical joining.

The sealing efficiency of Victaulic gaskets is such that the gasket forms an initial seal as it is stretched over the pipe ends. As the housing segments are tightened, the resilient elastomeric gasket conforms to the internal cavity of the housing, further enhancing the gasket's seal against the pipe, both in pressure and vacuum conditions. The Victaulic gasket is pressure responsive, providing increased sealing action as the internal pressure is increased. The combination of these characteristics creates a permanent, leak-tight triple seal on a variety of piping materials including steel, stainless steel, aluminum, PVC, ductile iron and copper.

The gasket is molded to fit the internal cavity of the housing. Upon placement of the housing around the gasket and into the grooves, the gasket is positioned.

UNIQUE PRESSURE RESPONSIVE GASKET FORMS A TRIPLE SEAL



SEALS BETWEEN THE PIPE ENDS AND THE GROOVE.

The gasket is then slightly compressed as the housings are tightened to secure the gasket lips in a firm seat on the pipe, between the grooves and the pipe ends.

Line pressure serves to strengthen the seal through the combination of normal gasket resilience, housing reinforcement and the action of pressure downward on the lips.



SEAL IS ENHANCED BY PRESSURE OR VACUUM IN THE LINE

JOB/OWNER	CONTRACTOR	ENGINEER
System No	Submitted By	Spec Sect Para
Location	Date	Approved
		Date



Seal Selection Guide

SECTION A: GASKET SEALS FOR COUPLINGS

GASKET SEAL DATA

Victaulic offers a variety of synthetic elastomeric gasket seals to provide the option of grooved piping products for the widest range of applications. To assure the maximum life for the service intended, proper gasket selection and specification in ordering is essential.

Many factors must be considered in determining the optimum gasket seal for a specific service. The foremost consideration is temperature, along with concentration of product, duration of service, and continuity of service. Temperatures beyond the recommended limits have a degrading effect on the polymer. Therefore, there is a direct relationship between temperature, continuity of service, and gasket life.

Services listed are General Service Recommendations for each of the three associated product areas. It should be noted that there are services for which these gasket seals are **not recommended**. Reference should always be made to the General Chemical Resistance Properties for each Victaulic gasket Grade for specific service recommendations and for a listing of services which are **not recommended**. Furthermore, Victaulic gaskets are also developed according to housing roles, i.e. the design of the housing and to a given percent seal compression.

Gasket recommendations apply only to Victaulic gasket seals. Recommendations for a particular service does not necessarily imply compatibility of the coupling housing, related fittings, or other components for the same service.

Victaulic gaskets are clearly marked as part of the mold with the gasket size, style, and associated compound for easy identification.

POTABLE WATER

Grade "E" EPDM, Grade "E" Vic-Plus™, Grade "EHP", Grade "EHP" Vic-Plus, Grade "E2" and Grade "EW" gaskets were submitted to Underwriters' Laboratories, Inc. for evaluation in potable water applications. EPDM material was tested to the requirements of ANSI/NSF 61 (Drinking Water System Components - Health Effects) and NSF 372 (Safe Drinking Water Act). Successful completion of this testing allows us to state that our EPDM gasket material is UL classified in accordance with ANSI/NSF 61 and NSF 372 for cold (+86°F/+30°C) and hot (+180°F/+82°C) potable water service.

Similarly, Victaulic Grade "M" halogenated butyl gasket material (which is typically used with Victaulic AWWA sized products) has also been UL classified in accordance with ANSI/NSF 61 and NSF 372 for cold (+86°F/+30°C) potable water service.

The data provided is intended for use as an aid to qualified designers when products are installed in accordance with the latest available Victaulic product line.



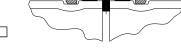
Seal Selection Guide

SECTION A: GASKET SEALS FOR COUPLINGS

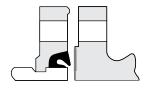
Gasket Styles

ILLUSTRATIONS EXAGGERATED FOR CLARITY







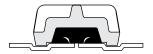


Standard

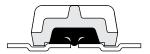
Installation-Ready

Reducing

Vic-Flange



FlushSeal



Grooved Copper Tubing with FlushSeal Gasket



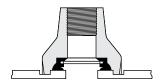
Advanced Groove System (AGS)



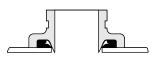
EndSeal



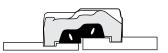
FireLock EZ



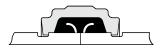
Outlet



Mechanical-T



IPS to AWWA Transition



AWWA FlushSeal



Plain End



Plain End Piping System for HDPE Pipe

Seal Selection Guide

SECTION A: GASKET SEALS FOR COUPLINGS

GASKET SEAL SELECTION GUIDE



To assure maximum life for the service intended, proper gasket selection and specification
in ordering is essential. For specific chemical and temperature compatibility, refer to the
Gasket Selection and Chemical Services sections. The information shown defines general
ranges for all compatible fluids.

Failure to select the proper rubber compound may result in personal injury or property damage, improper installation, joint leakage or joint failure.

STANDARD GASKET SEALS IPS

Grade	Temp. Range*	Compound	Color Code	General Service Recommendations
E	-30°F to +230°F -34° C to +110° C	EPDM	Green Stripe	Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 and NSF 372 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.
EHP [©]	-30°F to +250°F -34°C to +120°C	EPDM	Red & Green Stripes	Recommended for hot water service within the specified temperature range. UL classified in accordance with ANSI/NSF 61 and NSF 372 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES
Т	-20°F to +180°F -29° C to +82° C	Nitrile	Orange Stripe	Recommended for petroleum products, hydrocarbons, air with oil vapors, vegetable and mineral oils within the specified temperature range; not recommended for hot dry air over +140°F/+60°C and water over +150°F/+66°C. NOT RECOMMENDED FOR HOT WATER SERVICES.
T† (Type A)	Ambient	EPDM	Violet Stripe	Applicable for wet and dry (oil-free air) sprinkler services only. For dry services, Victaulic continues to recommend the use of FlushSeal® gaskets. NOT RECOMMENDED FOR HOT WATER SERVICES.
E2	Ambient	EPDM	Double Green Stripe	UL classified in accordance with ANSI/NSF 61 and NSF 372 for cold +86°F/+30°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

[†] Vic-Plus gasket.



^{*} For specific chemical and temperature compatibility, please refer to either the short or full version Gasket Chemical Services Guide. The information shown defines general ranges for all compatible fluids. ϵ The Grade EHP gasket is only available on Style 107, 607 and 177 couplings.

Seal Selection Guide

SECTION A: GASKET SEALS FOR COUPLINGS

SPECIAL GASKETS IPS

Grade	Temp. Range*	Compound	Color Code	General Service Recommendations
M2	-40°F to +160°F -40° C to +71° C	Epichlorohydrin	White Stripe	Specially compounded to provide superior service for common aromatic fuels at low temperatures. Also suitable for certain ambient temperature water services.
V	-30°F to +180°F -34° C to +82° C	Neoprene	Yellow Stripe	Recommended for hot lubricating oils and certain chemicals. Good oxidation resistance. Will not support combustion.
0	+20°F to +300°F -7° C to +149° C	Fluoro- elastomer	Blue Stripe	Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons. NOT RECOMMENDED FOR HOT WATER SERVICES.
L	-30°F to +350°F -34° C to +177° C	Silicone	Red Gasket	Recommended for dry heat, air without hydro- carbons to +350°F/+177°C and certain chemical services.
A	+20°F to +180°F -7° C to +82° C	White Nitrile	White Gasket	No carbon black content. May be used for food. Meets FDA requirements. Conforms to CFR Title 21 Part 177.2600. Not recommended for hot water services over +150°F/+66°C or for hot, dry air over +140°F/+60°C. NOT RECOMMENDED FOR HOT WATER SERVICES.
HMT (T EndSeal®)	-20°F to +150°F -29° C to +66° C	Nitrile	Orange & Silver Stripes	Specially compounded with excellent oil resistance and a high modulus for resistance to extrusion. Temperature Range –20°F/–29°C to +150°F/+66°C. Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°F/+66°C or for hot, dry air over +140°F/+60°C. For maximum gasket life under pressure extremes, temperature should be limited to +120°F/+49°C.

^{*} For specific chemical and temperature compatibility, please refer to either the short or full version Gasket Chemical Services Guide. The information shown defines general ranges for all compatible fluids.

Seal Selection Guide

SECTION A: GASKET SEALS FOR COUPLINGS

SPECIAL GASKETS IPS

Grade	Temp. Range*	Compound	Color Code	General Service Recommendations
EF	-30° F to +230°F -34° C to +110° C	EPDM	Green "X"	Recommended for hot and cold water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. Also meets hot and cold potable water requirements per DVGW, KTW, ÖVGW, SVGW, and French ACS (Crecep), approved for W534, approved for EN681-1 Type WA cold potable, and Type WB hot potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.
EW	–30°F to +230°F –34° C to +110° C	EPDM	Green "W"	Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. WRAS approved material to BS 6920 for cold and hot potable water service up to +149°F/+65°C. UL Classified to ANSI/NSF 61 and NSF 372 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

^{*} For specific chemical and temperature compatibility, please refer to either the short or full version Gasket Chemical Services Guide. The information shown defines general ranges for all compatible fluids.

SPECIAL GASKETS AWWA

I	Grade	Temp. Range*	Compound	Color Code	General Service Recommendations
	S	-20° F to +180°F -29° C to +82° C	Nitrile	Orange Stripe	Specially compounded to conform to ductile pipe surfaces. Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range; not recommended for hot dry air over +140°F/+60°C and water over +150°F/+66°C. NOT RECOMMENDED FOR HOT WATER SERVICES.
	M	-20°F to +200°F -29° C to +93° C	Halogenated Butyl	Brown Stripe	Recommended for water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. Readily conforms to ductile pipe surfaces. UL classified in accordance with ANSI/NSF 61 and NSF 372 for cold +86°F/+30°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

^{*} For specific chemical and temperature compatibility, please refer to either the short or full version Gasket Chemical Services Guide. The information shown defines general ranges for all compatible fluids.



Seal Selection Guide

SECTION B: PRESS SEALS FOR VIC-PRESS



Vic-Press® for Schedule 10S, Type 304/304(L) and Type 316/316(L) stainless steel pipe provides a fast, easy, clean, and reliable means for joining small size ASTM A-312 Schedule 10S stainless steel pipe. Vic-Press for Schedule 10S products meet ASME requirements and ratings for ANSI Class 150 systems for water, oil, gases and general chemical services as depicted in the General Service Recommendations shown below. FM Approved.

PATENT-PENDING PRESS DETECTION TECHNOLOGY PROVIDES FOR EASY IDENTIFICATION OF UNPRESSED JOINTS AS A SYSTEM IS BEING PRESSURIZED



The press seal is compressed as the housing is pressed, creating a leak tight seal rated to 500psi/3450kPa

Grade	Temp. Range*	Compound	Color Code	General Service Recommendations
Н	-20° F to +210°F -29° C to +98° C	Hydrogenated Nitrile Butadiene Rubber (HNBR)	Two Orange Stripes	Recommended for hot petroleum/water mixtures, hydrocarbons, air with oil vapors, vegetable and mineral oils, engine oil, transmission oil. ANSI/NSF 61 and NSF 372 for potable water up to 180°F/82°C.
	Standard Seal- Vic-	-Press products wil	l ship with Gra	ade "H" seal unless otherwise specified on order.
E	-30° F to +250°F -34° C to +121° C	EPDM	Green Stripe	Recommended for hot water service, dilute acids, oil-free air, chemical services. NOT RECOMMENDED FOR PETROLEUM or STEAM SERVICES. ANSI/NSF 61 and NSF 372 for potable water up to 180°F/82°C.
0	+20°F to +300°F +6° C to +149° C	Fluoro- elastomer	Blue Stripe	Recommended for oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids, and air with hydrocarbons. NOT RECOMMENDED FOR HOT WATER OR STEAM SERVICES.

WARNING

- Vic-Press for Schedule 10S products for Types 304 and 316 stainless steel must only be used on services compatible with seal and fitting materials.
- Incompatible services may result in leakage. Always reference the latest Victaulic Seal Selection Guide (05.01) for specific seal service recommendations.

Seal Selection Guide

SECTION C: PRIMARY ELASTOMERIC SEALS FOR VALVES



The following seal materials are offered for Victaulic valves for chemical services as depicted in the General Service Recommendations shown below. Please consult with Victaulic for availability.

Grade	Temp. Range*	Compound	Valve Series Number	General Service Recommendations
E	-30° F to +230° F -34° C to +110° C	EPDM	317, 365, 700, 7A2, 7B2, 702, 712, 712S, 713, 716, 716H, 717, 717H, 717HR, 717R, 751, 768, 769, 779	Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. Certain valves using this Grade are UL classified in accordance with ANSI/NSF 61 and NSF 372 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.
	-30° F to +180°F -34° C to +82° C		W709, W715, 771F, 771H, 772F, 772H	SERVICES.
EV	-30°F to +230°F -34° C to +110° C	EPDM	761, SC761, W761	Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. Certain valves using this Grade are UL classified in accordance with ANSI/NSF 61 and NSF 372 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.
E3	-30°F to +250°F -34° C to +121° C	EPDM	705, 707C, 765, 766	Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. NOT RECOMMENDED FOR PETROLEUM SERVICES.
TA	-20°F to +180°F -29°C to +82°C	Nitrile	317, 365, 608, 700, 712, 7125, 713, 716, 716H, 717H, 717HR, 765, 779, 2950	Recommended for petroleum products, air with oil vapors, oil-free gas, vegetable and mineral oils within the specified temperature range. NOT RECOMMENDED FOR HOT WATER SERVICES OVER +150°F/+66°C OR FOR HOT DRY AIR OVER +140°F/+60°C.
TV	-20°F to +180°F -29°C to +82°C	Nitrile	761, SC761, W761	Recommended for petroleum products, air with oil vapors, oil-free gas, vegetable and mineral oils within the specified temperature range. NOT RECOMMENDED FOR HOT WATER SERVICES OVER +150°F/+66°C OR FOR HOT DRY AIR OVER +140°F/+60°C.

^{*} For specific chemical and temperature compatibility, please refer to either the short or full version Gasket Chemical Services Guide. The information shown defines general ranges for all compatible fluids.

Seal Selection Guide

SECTION C: PRIMARY ELASTOMERIC SEALS FOR VALVES

The following seal materials are offered for Victaulic valves for chemical services as depicted in the General Service Recommendations shown below. Please consult with Victaulic for availability.

Grade	Temp. Range*	Compound	Valve Series Number	General Service Recommendations
Т3	-20°F to +180°F -29° C to +82° C	Nitrile	705, 707C, 765, 766	Recommended for petroleum products, air with oil vapors, oil-free gas, vegetable and mineral oils within the specified temperature range. NOT RECOMMENDED FOR HOT WATER SERVICES OVER +150°F/+66°C OR FOR HOT DRY AIR OVER +140°F/+60°C.
0	+40°F to +230°F -4° C to +110° C	Fluoro- elastomer	317, 365, 712, 712S, 713, 716, 716H, 779	Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids. NOT RECOMMENDED FOR HOT WATER SERVICES.
OV	+20°F to +250°F -7° C to +121° C	Fluoro- elastomer	761, SC761, W761	Recommended for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids. NOT RECOMMENDED FOR HOT WATER SERVICES.
V	-30°F to +180°F -34° C to +82° C	Neoprene	317, 365	Recommended for hot lubricating oils and certain chemicals. Good oxidation resistance. Will not support combustion.
CHP, CHP2	+40°F to +230°F +4° C to +110° C	Fluoro- elastomer	608	Recommended for cold and hot water service within the specified temperature range plus a variety of acids, bases, petroleum oils, lubricants, hydraulic fluids and air with hydrocarbons. UL classified in accordance with ANSI/NSF61 and NSF 372 for cold +86°F/+30°C and hot +180°F/+82°C potable water service.

^{*} For specific chemical and temperature compatibility, please refer to either the short or full version Gasket Chemical Services Guide. The information shown defines general ranges for all compatible fluids.



Seal Selection Guide

SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION 1

SEAL MATERIAL SELECTION

General Chemical Resistance properties are shown in the following pages for Victaulic elastomer compounds. Unless otherwise noted, temperatures are ambient. For chemicals or combinations not listed please see the full detailed chemical list or contact Victaulic for recommendations.

The data and recommendations presented are based upon the best information available resulting from our field experience and laboratory testing. In addition, we have incorporated the recommendations supplied by prime producers of basic copolymer materials and information furnished by leading molders of rubber products.

The information presented in this guide is general in scope and should be used only with this full knowledge and understanding. In unusual, critical or severe services, full information should be referred to Victaulic, such as non-ambient operating temperatures or highly concentrated solutions.

Where possible, materials should be subjected to simulated service conditions to determine their suitability for the service intended. Furthermore, it should not be concluded that, in instances where a liner is not affected by several substances used alone, their combination will have no reaction on the liner. Caution should be exercised with explosive, inflammable or toxic fluids. All gasket recommendations are based on pressure and temperature limitations published by Victaulic. Borderline services always should be verified by Victaulic.

Victaulic Grade	ASTM Designation / Common Name	Composition	General Chemical Resistance Properties
EHP	EPDM Ethylene Propylene	Ethylene- propylene- diene-monomer	Generally resistant to animal and vegetable oils, strong oxidizing chemicals, organic and inorganic acids, cleaning agents, sodium and potassium alkalis, and ozone. Excellent aging characteristics. Poor resistance to petroleum based fluids, mineral oils, solvents, and aromatic hydrocarbons.
E, EA	EPDM Ethylene Propylene	Ethylene- propylene- diene-monomer	Generally resistant to animal and vegetable oils, strong oxidizing chemicals, organic and inorganic acids, cleaning agents, sodium and potassium alkalis, and ozone. Moderate aging characteristics. Poor resistance to petroleum based fluids, mineral oils, solvents, and aromatic hydrocarbons.
T, A	NBR Nitrile	Butadiene Acrylonitile Copolymer	Generally resistant to aliphatic hydrocarbons, fats, oils, greases, hydraulic fluids, dilute acids, bases, salt solutions, and ethylene glycol fluids. Poor resistance to ozone and highly polar solvents such as acetone and ketones, esters, ethers, aldehydes, strong acids chlorinated and nitro hydrocarbons.
H, ST	HNBR Hydrogenated Nitrile	Highly Saturated Nitrile Hydrogenated Acrylonitile Butadiene	Generally resistant to aliphatic hydrocarbons, fats, oils, greases, hydraulic fluids, dilute acids, bases salt solutions, and ethylene glycol fluids. Increased long term temperature resistance beyond NBR. Poor resistance to ozone and highly polar solvents such as acetone and ketones, esters, ethers, aldehydes, strong acids, chlorinated and nitro hydrocarbons.
L	VMQ Silicone	Silicone	Generally resistant to hot air, animal and vegetable oil and grease, high molecular weight chlorinated aromatic hydrocarbons, dilute salt solutions. Poor resistance to hot water, acids and alkalis, low molecular weight chlorinated hydrocarbons, hydrocarbon based fuels, aromatic hydrocarbons such as benzene and toluene, low molecular weight silicone oils, and brake fluid.

Seal Selection Guide

SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION ${\bf 1}$

Victaulic Grade	ASTM Designation / Common Name	Composition	General Chemical Resistance Properties
V	CR Neoprene	Chloroprene copolymer	Generally resistant to paraffin based mineral oils, silicone oils, grease, water and water solvents at low temperatures, refrigerants, ammonia, carbon dioxide, silicone ester lubricants, and dilute acids. Limited resistance with Naphthalene based mineral oils, low molecular weight aliphatic hydrocarbons and glycol based brake fluids. Poor resistance with aromatic hydrocarbons, chlorinated hydrocarbons, gasoline, automobile and aircraft brake fluids, and polar solvents such as ketones, esters, and ethers.
M2A2	ECO Epichlorohydrin	Polyepichloro- hydrin copolymer	Generally high resistance to hydrocarbons, oils, fuels, bio-fuels, and solvents. Exhibits good heat resistance, excellent ozone resistance along with outstanding gas impermeability.
M	Halogenated Butyl	Chlorinated Isobutylene- isoprene copolymer	Excellent resistance to weathering, ozone, and heat/hot air. Very good resistance to acidic and basic chemicals. Very low permeability to gases and liquids.
0	FKM Fluoroelastomer	Bisphenol cureable copolymer	Generally resistant to most acids / chemicals, halogenated hydrocarbons, aliphatic and aromatic hydrocarbon process fluids and chemicals, automotive and aviation fuels, SE and SF engine lubricating oils, Di-Ester lubricants, petroleum oils / fuels, silicone oils / greases. Poor resistance to aqueous fluids, steam, mineral acids, automotive fuels oxygenated with MEOH, ETOH, MTBE, etc. Ketones (MEK), auto / aircraft brake fluids, amines (Ammonia), acetone, Ethyl Acetate, hot water, low molecular esters and ethers.
СНР	TFE/P Fluoroelastomer	Fluorinated Copolymer	Excellent heat resistance and exceptional chemical resistance to strong acids and bases, phosphate esters, amines, engine oils, hydraulic and brake fluids, pulp and paper liquors, and hot water. Poor resistance to aromatic fuels, chlorinated hydrocarbons, and ketones.

Seal Selection Guide

SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION 2

Gasket Chemical Services Guide



AWARNING

- The information contained herein is general in nature and recommendations are valid only for Victaulic compounds.

 Gasket compatibility is dependent upon a number of factors. Suitability for a particular application must be determined by a competent individual familiar with system-specific conditions.

 Valuation of the recommendation of the value of va

Failure to follow these instructions could cause system failure, resulting in serious personal injury and property damage.

Revision: GSG-100 6490 Rev.(AA)

1 2 3	Most Applications Limited Applications Restricted Applications Insufficient Data Chemical		Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
1,4-Butanedic	ol		1	3	3	3	1	1			3
2-Chlorophen	ol		3	3	3	3	3	3			3
Abietic Acid											
Acetaldehyde			2	3	3	3	3	3			2
Acetamide			1	1	1	1	2	3			2
Acetanilide			1	3	3	3	1	3			2
Acetic Acid, 3	0%		1	2	2	2	1	3		2	1
Acetic Acid, 5	%		1	2	2	2	1	3		2	1
Acetic Acid, G	Blacial		1	3	3	3	3	3		3	2
Acetic Acid, H	lot, High Pressure		3	3	3	3	3	3	-	3	3
Acetic Anhydr	ride		2	3	3	3	2	3		3	3
Acetoacetic A	cid		1	3	3	3	1	3			2
Acetone			1	3	3	3	3	3		3	3
Acetone Cyanohydrin		1	3	3	3	1	3			2	
Acetonitrile		1	3	3	3	1	3	-			
Acetophenetic	dine		3	2	2	2	3	1	-		
Acetophenon	e		1	3	3	3	3	3		3	3

The data and recommendations presented are based upon the best information available resulting from a combination of Victaulic's field experience, laboratory testing and recommendations supplied by prime producers of basic copolymer materials. The information presented in this guide is general in scope and specific applications should be discussed with your Victaulic sales representative. In addition, contact Victaulic for recommendations for services, chemicals and/or temperatures not listed.

- Unless otherwise noted, ratings indicated are at an ambient room temperature of ~73°F (22.8°C) and concentrations are 100%
- All gasket recommendations are based on pressure and temperature limitations published by Victaulic
 Gaskets may be affected by combinations of chemicals where the chemicals acting individually may not react
 Cautions should be exercised when working with explosive, inflammable or toxic fluids
 Materials should be subjected to simulated service conditions to determine their suitability for the service

NOTE: Grade H is standard with the Victaulic® Vic-Press™ Schedule 10S system.



Seal Selection Guide

SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION 2

Gasket Chemical Services Guide

ictaulic

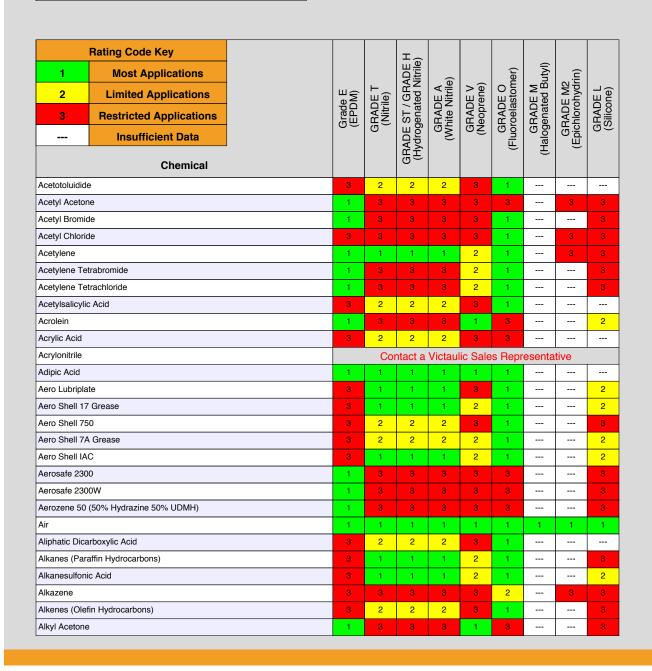
AWARNING

- The information contained herein is general in nature and recommendations are valid only for Victaulic compounds.

 Gasket compatibility is dependent upon a number of factors. Suitability for a particular application must be determined by a competent individual familiar with system-specific conditions.

 Victaulic offers no warranties, expressed or implied, of a product in any application. Contact your Victaulic sales representative to ensure the best gasket is selected for a particular service.

Failure to follow these instructions could cause system failure, resulting in serious personal injury and property damage.



Seal Selection Guide

SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION 2

Gasket Chemical Services Guide

ictaulic'

▲WARNING

- The information contained herein is general in nature and recommendations are valid only for Victaulic compounds.
 Gasket compatibility is dependent upon a number of factors. Suitability for a particular application must be determined by a competent individual familiar with system-specific conditions.
 Victaulic offers no warranties, expressed or implied, of a product in any application. Contact your Victaulic sales representative to ensure the best gasket is selected for a particular service.

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	Datha Oada Kasa										
1 2 3 	Rating Code Key Most Applications Limited Applications Restricted Applications Insufficient Data Chemical	L C	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
Alkyl Alcohol			3	1	1	1	2	3			2
Alkyl Amine			2	1	1	1	2	3			2
Alkyl Aryl Sulf	fonates		3	1	1	1	2	- 1			2
Alkyl Aryl Sulf	fonics		3	1	1	1	2	1			2
Alkyl Benzene	е		3	2	2	2	3	1			2
Alkyl Chloride)		3	2	2	2	3	3			2
Alkyl Sulfide			3	2	2	2	3	- 1			2
Alkylnaphthal	ene Sulfonic Acid		3	1	1	1	2	1			2
Allyl Alcohol			Contact a Victaulic Sales Representative								
Allyl Chloride			Contact a Victaulic Sales Representative								
Allylidene Dia	cetate			Cor	ntact a	Victaul	ic Sale	s Repr	esenta	tive	
Alpha Picoline	е		1	3	3	3	2	3			2
Aluminum Ac	etate		1	2	2	2	2	3		3	3
Aluminum Bro	omide		1	1	1	1	1	1		1	1
Aluminum Ch	lorate		1	3	3	3	3	3			3
Aluminum Ch	loride		1	1	1	1	1	1		1	2
Aluminum Flu	ıoride		1	1	1	1	1	1		1	2
Aluminum Fo	rmate		1	3	3	3	1	3			2
Aluminum Hy	droxide		1	2	2	2	1	1		-	2
Aluminum Lin	oleate		3	1	1	1	2	1			2
Aluminum Nit	rate		1	1	1	1	1	1		1	2
Aluminum Ph	osphate		1	1	1	1	1	1		1	2
Aluminum Po	tassium Sulfate		1	3	3	3	1	1			2
Aluminum Sa	lts		1	1	1	1	1	1			1
Aluminum So	dium Sulfate		1	3	3	3	1	1			2
Aluminum Su	lfate		1	1	1	1	1	1			1
Alums-NH3 -0	Or -K		1	1	1	1	1	1			1

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Ambrex 33 & 830	3	1	1	1	2	1			3
Amines	2	3	3	3	3	3			3
Amines-Mixed	2	3	3	3	2	3			2
Aminopyridine	2	3	3	3	3	3			
Ammonia and Lithium Metal in Solution	2	2	2	2	3	3			3
Ammonia, Anhydrous (Pure Ammonia)		Coi	ntact a	Victaul	ic Sale		esenta		
Ammonia, Aqueous (40% Max)	1	1	1	1	1	2		3	1
Ammonia, Gas, Cold	1	1	1	1	1	3			1
Ammonia, Gas, Hot	2	3	3	3	2	3			1
Ammonia, Liquid (Anhydrous)	1	2	2	2	1	3			3
Ammonium Acetate	1	1	1	1	1	3			2
Ammonium Alum	1	1	1	1	1	1			
Ammonium Arsenate	1	3	3	3	1	3			2
Ammonium Benzoate	1	3	3	3	1	3			2
Ammonium Bicarbonate	1	3	3	3	1	3			2
Ammonium Bifluoride	1	1	1	1	3	1			
Ammonium Bisulfite	1	3	3	3	1	3			2
Ammonium Bromide	1	1	1	1	1	1			
Ammonium Carbamate	1	3	3	3	3	3			2
Ammonium Carbonate	1	3	3	3	1	1		2	
Ammonium Chloride, 2N	1	1	1	1	1	1		1	
Ammonium Citrate	1	3	3	3	1	3			2
Ammonium Dichromate	1	3	3	3	1	3			2
Ammonium Diphosphate	1	3	3	3	1	3			2
Ammonium Fluoride	1	1	1	1	1	1			1
Ammonium Formate	1	3	3	3	1	3			2
Ammonium Hydroxide, 3 Molar	1	1	1	1	1	3			1

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Chemical			P. F.						
Ammonium Hydroxide, Concentrated	1	3	3	3	1	3		3	1
Ammonium lodide	1	1	- 1	1	1	1			
Ammonium Lactate	1	3	3	3	1	3			2
Ammonium Metaphosphate	1	3	3	3	1	3			2
Ammonium Molybdate	1	2	2	2	2	- 1			2
Ammonium Molybdenate	1	3	3	3	1	3			2
Ammonium Nitrate, 2N	1	1	1	1	1	1		1	
Ammonium Nitrite	1	1	1	1	1	1			2
Ammonium Oxalate	1	3	3	3	1	3			2
Ammonium Perchlorate	1	3	3	3	1	3			2
Ammonium Persulfate 10%	1	3	3	3	1	1			
Ammonium Phosphate	1	1	1	1	1	2		1	1
Ammonium Phosphate, Dibasic	1	1	1	1	1	1			1
Ammonium Phosphate, Mono-Basic	1	1	1	1	1	1		1	1
Ammonium Phosphate, Tribasic	1	1	1	1	1	1			1
Ammonium Phosphite	1	3	3	3	1	3			2
Ammonium Picrate	1	3	3	3	1	3			2
Ammonium Polysulfide	1	3	3	3	- 1	3			2
Ammonium Salicylate	1	3	3	3	- 1	3			2
Ammonium Salts	1	1	1	1	- 1	3			1
Ammonium Sulfamate	1	3	3	3	1	3			2
Ammonium Sulfate	1	1	1	1	1	3			
Ammonium Sulfate Nitrate	1	1	1	1	1	3			
Ammonium Sulfide	1	1	1	1	1	3			
Ammonium Sulfite	1	3	3	3	1	3			2
Ammonium Thiocyanate	1	3	3	3	1	3			2
Ammonium Thioglycolate	1	3	3	3	- 1	3			2

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	Insufficient Data			3ADE 1ydro	8	اعق ا	(Fluo	Halog	(Epic		
	Chemical			유							
Ammonium T	Thiosulfate	1	3	3	3	1	3			2	
Ammonium T	ungstate	1	3	3	3	1	3			2	
Ammonium V	/alerate	1	3	3	3	- 1	3			2	
Amyl Acetate)		Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Alcohol			Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Borate			Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Butyrate	е		Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Chloride	e		Cor	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Chloron	naphthalene		Cor	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Cinnam	nic Aldehyde	Contact a Victaulic Sales Represent									
Amyl Laurate	•		Cor	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Mercap	tan	Contact a Victaulic Sales Representation									
Amyl Naphtha	alene	Contact a Victaulic Sales Representative									
Amyl Nitrate			Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Nitrite			Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Phenol			Cor	ntact a	Victaul	lic Sale	s Repr	esenta	tive		
Amyl Propion	nate		Coi	ntact a	Victaul	ic Sale	s Repr	esenta	tive		
Anderol, L- 82	26 (di-ester)	3	2	2	2	3	1			3	
Anderol, L- 82	29 (di-ester)	3	2	2	2	3	1			3	
Anderol, L-77		3	2	2	2	3	1			3	
<u> </u>	ester Base) (TG749)	3	2	2	2	3	1			2	
ANG-25 (Gly	ceral Ester)	1	2	2	2	2	1			2	
Aniline		 3	3	3	3	3	3		3	3	
Aniline Dyes		2	3	3	3	2	2			3	
Aniline Hydro	ochloride	 2	2	2	2	3	2			3	
Aniline Oil		2	3	3	3	3	3			3	
Aniline Sulfat	ie	1	3	3	3	1	3			2	

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Aniline Sulfite	1	3	3	3	1	3			2
Animal Oil (Lard Oil)	2	1	1	1	2	1		1	2
Anisole					3	3			
AN-O-3 Grade M	3	1	1	1	2				2
AN-O-366	3	1	1	1	2				3
AN-O-6	3	1	1	1	2				3
Ansul Ether 161 or 181	3	3	3	3	3	3			3
Anthracene	3	2	2	2	3	- 1			
Anthranilic Acid	2	3	3	3	3	3			
Anthraquinone		Coi	ntact a	Victaul	ic Sale	s Repr	esenta	tive	
Anti-freeze Solutions	1	3	3	3	1	3			2
Antimony Chloride	3	1	1	1	2	2			3
Antimony Pentachloride	3	1	1	1	2	2			3
Antimony Pentafluoride		3	3	3	3				
Antimony Tribromide	3	1	1	1	2	1			3
Antimony Trichloride	3	1	1	1	2	1			3
Antimony Trifluoride	3	1	1	1	2	1			3
Antimony Trioxide	3	1	1	1	2	1			3
AN-VV-O-366b Hydr. Fluid	3	- 1	1	1	2				3
Aqua Regia	3	3	3	3	3	2			3
Arachidic Acid						3			
Argon	1	1	1	1	1	1			- 1
Aroclor, 1248	3	3	3	3	3	1			2
Aroclor, 1254	3	3	3	3	3	1			3
Aroclor, 1260	1	1	1	1	1	1			1
Aromatic Fuel -50%	3	2	2	2	3	1			3
Arsenic Acid	1	1	1	1	1	1		1	1

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	Chemical			GRAI (Hyd			<u>E</u>	(На	<u> </u>	
Arsenic Oxid	e	1	1	1	1	1	1		1	1
Arsenic Trich	loride	3	1	1	1	1	3			
Arsenic Triox	ride	3	1	1	1	1	3			
Arsenic Trisu	ılfide	3	1	1	1	1	3			
Ascorbic Acid	t	1	3	3	3	1	3			2
Askarel Trans	sformer Oil	3	2	2	2	3	1			3
Aspartic Acid	I	1	3	3	3	1	3			2
Asphalt		3	2	2	2	2	- 1			3
ASTM Oil, No	0. 1	3	- 1	1	1	1	1		3	1
ASTM Oil, No	0. 2	3	- 1	1	1	2	1			3
ASTM Oil, No	0. 3	3	1	1	1	3	1			3
ASTM Oil, No	0. 4	3	2	2	2	3	1			3
ASTM Oil, No	0. 5	3	- 1	1	1	2	1			
ASTM Refere	ence Fuel A	3	1	1	1	2	1		1	3
ASTM Refere	ence Fuel B	3	1	1	1	3	1		1	3
ASTM Refere	ence Fuel C	3	2	2	2	3	1		3	3
ASTM Refere	ence Fuel D	3	2	2	2	3	1			
ATL-857		3	2	2	2	3	1			3
Atlantic Domi	inion F	3	1	1	1	2	1			3
Atlantic Utro	Gear-e	3	- 1	1	- 1	2	1			
Atlantic Utro	Gear-EP Lube	 3	1	1	1	2	1			3
Aure 903R (N	Mobil)	3	1	1	1	2	1			3
Automatic Tra	ansmission Fluid	3	1	1	1	2	1			3
Automotive E	Brake Fluid	1	3	3	3	2	3			3
AXAREL 910	00	2				2	1			3
Bardol B		3	3	3	3	3	1			3
Barium Carbo	onate	1	3	3	3	1	1			2

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Barium Chlorate	1	3	3	3	1	1			2
Barium Chloride	1	1	1	1	1	1		1	1
Barium Cyanide	1	1	1	1	1	1			1
Barium Hydroxide	1	1	1	1	1	1		1	1
Barium lodide	1	1	1	1	1	1			1
Barium Nitrate	1	3	3	3	1	1			2
Barium Oxide	1	1	1	1	1	1			1
Barium Peroxide	1	3	3	3	1	3			2
Barium Polysulfide	1	3	3	3	1	3			2
Barium Salts	1	1	- 1	1	1	1			1
Barium Sulfate	1	1	1	1	1	1		1	1
Barium Sulfide	1	1	1	1	1	1		1	1
Bayol 35	3	- 1	1	1	2	1			3
Bayol D	3	1	1	1	2	1			3
Beer	1	1	1	1	1	1		1	1
Beet Sugar Liquids	1	1	1	1	1	1		1	
Benzaldehyde	1	3	3	3	3	3		3	2
Benzaldehyde Disulfonic Acid									
Benzamide	3	2	2	2	3	1			
Benzanthrone	3	2	2	2	3	3			
Benzene	3	3	3	3	3	3		3	3
Benzene Hexachloride						3			
Benzene Sulfonic Acid	3	3	3	3	2	1			3
Benzidine	3	2	2	2	3	1			
Benzidine 3 Sulfonic Acid	3	2	2	2	3	1			
Benzil	3	2	2	2	3	1			
Benzilic Acid	3	2	2	2	3	1			

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Benzine (Ligr	oin)	3	1	1	1	2	1			3
Benzocatecho	ol	3	2	2	2	3	1			
Benzochloride	e	1	3	3	3	3	1			
Benzoic Acid		3	3	3	3	3	-1			3
Benzoin		3	2	2	2	3	- 1			
Benzonitrile		1	3	3	3	1	3			2
Benzophenor	ne	2					3			
Benzoquinon	е	2					1			
Benzotrichlori	ide	1	3	3	3	3	1			
Benzotrifluori	de	1	3	3	3	3	1			
Benzoyl Chlo	ride	3	3	3	3	3	3			
Benzoyl Pero	xide									
Benzoylsulfor	nilic Acid	3	2	2	2	3	- 1			
Benzyl Aceta	te	1	3	3	3	1	3			2
Benzyl Alcoho	ol	2	3	3	3	2	- 1		3	2
Benzyl Amine)						3			
Benzyl Benzo	pate	3	3	3	3	3	1			3
Benzyl Bromi		3	3	3	3	3	- 1			3
Benzyl Butyl I		1	3	3	3	1	3			2
Benzyl Chlori		3	3	3	3	3	1			3
Benzyl Pheno		3	2	2	2	3	3		3	
Benzyl Salicy		3	2	2	2	3	1			
Beryllium Chl		1	1	1	1	3	1			3
Beryllium Fluo		1	1	1	1	3	1			3
Beryllium Oxi		1	1	1	1	3	1			3
Beryllium Sul		1	3	3	3	1				2
Bismuth Carb	oonate	1	3	3	3	1	1			2

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Revision: GSG-100 6490 Rev.(AA)

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Bismuth Nitra			1	3	3	3	1	3			2
Bismuth Oxyo	chloride		1	3	3	3	1	3			2
Bittern								1			
Black Liquor			1	2	2	2	1	1			
Black Point 7			1	1	1	1	3	1		1	3
Black Sulfate	<u>'</u>		3	3	3	3	3	1			3
Blast Furnace			3	3	3	3	3	1			1
Bleach Liquoi			1	3	3	3	3	1			3
Borax Solutio			1	ى 1	1	1	1	1		1	3
Bordeaux Mix			1	2	2	2	2	1			2
Boric Acid	· · · · · · · · · · · · · · · · · · ·		1	1	1	1	1	1		1	1
Boric Oxide			1	3	3	3	1	3		1	2
Borneol			3	2	2	2	3	3			
Bornyl Acetat	te		3	2	2	2	3	3			
Bornyl Chloric	de		3	2	2	2	3	1			
Bornyl Forma	ate		3	2	2	2	3	1			
Boron Fluids	(HEF)		3	2	2	2	3	1		1	3
Boron Trichlo	ride		3	3	3	3	3	1			
Boron Trifluor	ride		3	3	3	3	3	1			
Brake Fluid D	OOT3 (Glycol Type)		1	3	3	3	2	3		3	3
Bray GG-130			3	2	2	2	3	1			3
Brayco 719-F	R (VV-H-910)	_	1	3	3	3	2	3			2
Brayco 885 (MIL-L-6085A)		3	2	2	2	3	1		3	3
Brayco 910			1	2	2	2	2	3			3
Bret 710			1	2	2	2	2	3			3
Brine, salinity	> 5%		1	1	1	1		3	1		1

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Insufficient Data Chemical	Q B	95	GRADE S (Hydroge	G.W.	R N	GF (Fluore	GF (Haloge	GR (Epich	S)
Brom - 113	3	3	3	3	3				3
Brom - 114	3	2	2	2	2	3			3
Bromic Acid	1	3	3	3	1	1			2
Bromine Anhydrous liquid	3	3	3	3	3	1			3
Bromine Gas	3	3	3	3	3	2			3
Bromine Pentafluoride	3	3	3	3	3	3			3
Bromine Trifluoride	3	3	3	3	3	3		3	3
Bromine Water	2	3	3	3	3	3			3
Bromobenzene	3	3	3	3	3	1		3	3
Bromobenzene Cyanide	1	3	3	3	1	3	-		2
Bromochlorotrifluoroethane (Halothane)	3	3	3	3	3	1			3
Bromoform	3	2	2	2	3	1			
Bromomethane (Methyl Bromide)	3	2	2	2	3	1			
Bromotrifluoroethylene (BFE)						1			
Bromotrifluoromethane (F-13B1)						3			
Brucine Sulfate	1	3	3	3	1	3			2
Bunker Oil	3	- 1	1	1	3	1		1	3
Bunker's "C" (Fuel Oil)		1	1	1		1	-		
Butadiene	3	3	3	3	3	3	-	3	3
Butane	3	1	1	1	1	1	1	1	3
Butane, 2, 2-Dimethyl	3	1	1	1	2	1			3
Butane, 2, 3-Dimethyl	3	1	1	1	2	1			3
Butene 2-Ethyl (1-Butene 2-Ethyl)	3	1	1	1	3	1			3
Butter-Animal Fat	1	1	1	1	2	1		1	2
Butyl Acetate or n-Butyl Acetate	3	3	3	3	3	3		3	3
Butyl Acetyl Ricinoleate	1	2	2	2	2	1			
Butyl Acrylate	3	3	3	3	3	3			2

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Butyl Alcohol	2	1	1	1	1	1			2
Butyl Alcohol (Secondary)	2	2	2	2	2	1			2
Butyl Alcohol (Tertiary)	2	2	2	2	2	1			2
Butyl Amine or N-Butyl Amine	3	3	3	3	3	3			3
Butyl Benzoate	1	3	3	3	3	1			3
Butyl Benzolate						3			
Butyl Benzyl Phthalate	1	3	3	3	1	3			3
Butyl Butyrate or n-Butyl Butyrate	1	3	3	3	3	1			
Butyl Carbitol	1	3	3	3	3	3			3
Butyl Cellosolve	2	3	3	3	3	3			
Butyl Cellosolve Acetate	1	3	3	3	1	3			2
Butyl Cellosolve Adipate	2	3	3	3	3	3			2
Butyl Chloride	3	1	1	1	2	1			2
Butyl Ether or n-Butyl Ether	3	3	3	3	3	3			3
Butyl Glycolate	1	3	3	3	1	3			2
Butyl Lactate Putyl Laurete	1			3	1	3			2
Butyl Laurate Butyl Mercaptan (Tertiary)	3	3	3	3	3	3			3
Butyl Methacrylate	1	3	3	3	1	3			2
Butyl Oleate	2	3	3	3	3	1			
Butyl Oxalate	1	3	3	3	1	3			2
Butyl Phenol	3	3	3	3	3	3			
Butyl Phthalate	1	3	3	3	3	3			3
Butyl Stearate	3	2	2	2	3	1			
Butylbenzoic Acid	3	2	2	2	3	1			
Butylene	3	2	2	2	3	1		1	3
Butyraldehyde	2	3	3	3	3	3			3



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3	Restricted Applications	Grade E (EPDM)	Net i	ST / enat	AAD ite N	3AD	3AD oela	3AD	ADE	
	Insufficient Data	000	9	NDE (<u> </u>	تغق	a non!	aloge	GR	BS)
	Chemical			GR. FJ.			=	E		
Butyric Acid		2	3	3	3	3	3			
Butyric Anhyo	dride	1	3	3	3	1	3			2
Butyrolacetor	ne	1	3	3	3	1	3			2
Butyryl Chlori	ide	3	2	2	2	3	- 1			
Cadmium Ch	loride	1	3	3	3	1	2			2
Cadmium Cy	anide	1	3	3	3	1	1			2
Cadmium Nit	rate	1	3	3	3	1	3			2
Cadmium Ox	ide	1	3	3	3	1	2			2
Cadmium Su	lfate	1	3	3	3	1	2			2
Cadmium Su	lfide	1	3	3	3	1	2			2
Calcine Liquo	ors	1	1	1	1		1			
Calcium Acet	ate	1	2	2	2	2	3			3
Calcium Arse	enate	1	3	3	3	1	2			2
Calcium Benz	zoate	3	2	2	2	3	- 1			
Calcium Bica	rbonate	1	3	3	3	1	3			2
Calcium Bisu	lfate	1	1	- 1	1	1	- 1			3
Calcium Bisu	lfide	1	3	3	3	1	1			2
Calcium Bisu	lfite	3	2	2	2	2	- 1			2
Calcium Bron	nide	1	1	1	1	1	- 1			1
Calcium Carb	pide						1			
Calcium Carb	oonate	1	1	1	1	1	1			1
Calcium Chlo	orate	1	3	3	3	1	1			2
Calcium Chlo	oride	1	1	1	1	1	1		1	1
Calcium Chro	omate	1	3	3	3	1	3			2
Calcium Fluo	ride	1	1	- 1	1	1	1			1
Calcium Gluc	conate	1	3	3	3	1	3			2
Calcium Hydi	ride	1	1	- 1	1	1	- 1			1

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3	Restricted Applications Insufficient Data		Gra (EP	GRA (Nii	E ST rogen	GRA White	GRA (Neop	GRA	GRA ogena	GRAI	GRA (Silic
	insufficient Data				Hydr				(Hal	<u> </u>	
	Chemical				0						
Calcium Hyd	drosulfide		1	3	3	3	1	1			2
Calcium Hyd	droxide		1	1	1	1	1	1		1	1
Calcium Hyp	pochlorite		1	2	2	2	3	1		3	2
Calcium Hyp	pophosphite		1	3	3	3	1	3			2
Calcium Lac	tate		1	3	3	3	1	1		2	2
Calcium Nap	ohthenate		1	-				1	1		1
Calcium Nitr	ate		1	1	1	1	1	1	ł	1	2
Calcium Oxa	alate		1	3	3	3	1	3	ł		2
Calcium Oxi	de		1	1	1	1	1	1	ł		1
Calcium Per	manganate			1	1	1			ł		
Calcium Phe	enolsulfonate		1	3	3	3	1	3			2
Calcium Pho	osphate		1	1	1	1	2	1			1
Calcium Pho	osphate Acid		1	3	3	3	1	1	-		2
Calcium Pro	pionate		1	3	3	3	1	3			2
Calcium Pyri	idine Sulfonate		1					1			1
Calcium Salt	ts		1	1	1	1	1	1			2
Calcium Silic	cate		1	1	1	1	1	1	-		2
Calcium Ste	arate		3	2	2	2	3	1	-		
Calcium Sulf	famate		3	2	2	2	3	1	-		
Calcium Sulf	fate		1	3	3	3	1	1			2
Calcium Sulf	fide		1	1	1	1	1	1	-	3	2
Calcium Sulf	fite		1	1	1	1	1	1	-		1
Calcium Thic	ocyanate		1	3	3	3	1	1	1		2
Calcium Thic	osulfate		1	2	2	2	1	1			1
Calcium Tun	ngstate		1	3	3	3	1	1			2
Caliche Liqu	iors		1	1	1	1	1	1			2
Camphene			3	2	2	2	3	1			

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Camphor	3	2	2	2	3	1			
Camphoric Acid	3	2	2	2	3	1			
Cane Sugar Liquors	1	1	1	1	1	1		1	1
Capric Acid	3	1	1	1	2	1			2
Caproic Acid	3	1	1	1	2	1			2
Caproic Aldehyde	2	3	3	3	2	3			3
Caprolactam	3	1	1	1	2	3			2
Capronaldehyde	3	1	1	1	2	3			2
Caprylic Acid		3	3	3		2			
Carbamate	2	3	3	3	2	1			
Carbitol	2	2	2	2	3	3			3
Carbolic Acid (Phenol)	2	3	3	3	3	1		3	3
Carbon Bisulfide	3	3	3	3	3	1		3	3
Carbon Dioxide (Explosive Decompression Use)	1	1	- 1	1	1	1			3
Carbon Dioxide, Dry	1	1	1	1	1	1		1	3
Carbon Dioxide, Wet	1	1	1	1	2	1		1	3
Carbon Disulfide	3	3	3	3	3	3			3
Carbon Fluorides	3	2	2	2	3	1			3
Carbon Monoxide	1	1	- 1	- 1	2	1		1	1
Carbon Tetrachloride	3	3	3	3	3	1		3	3
Carbon Tetrafluoride	3	3	3	3	3	1			3
Carbonic Acid	1	1	1	1	1	1		1	1
Casein	1	3	3	3	1	1			2
Castor Oil	2	1	1	1	1	1		1	1
Caustic Lime	1	3	3	3	1	1		1	2
Caustic Potash	1	3	3	3	1	2		2	2
Caustic Soda (Sodium Hydroxide)	1	3	3	3	1	2		3	2

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Cellosolve	2	3	3	3	3	3			3
Cellosolve Acetate	2	3	3	3	3	3			3
Cellosolve Butyl	2	3	3	3	3	3			3
Celluguard	1	1	1	1	1	1			1
Cellulose Acetate	1	3	3	3	1	3			2
Cellulose Acetate Butyrate	1	3	3	3	1	3			2
Cellulose Ether	1	3	3	3	1	3			2
Cellulose Nitrate	1	3	3	3	1	3			2
Cellulose Tripropionate	1	3	3	3	1	3			2
Cellulube 90, 100, 150, 220, 300, 500, 550	1	3	3	3	3	1			1
Cellutherm 2505A	3	2	2	2	3	1			3
Cerium Sulfate	1	3	3	3	1	3			2
Cerous Chloride	1	3	3	3	1	3			2
Cerous Fluoride	1	3	3	3	1	2			2
Cerous Nitrate	1	3	3	3	1	2			2
Cetane (Hexadecane)	3	1	1	1	2	1			3
Cetyl Alcohol	3	1	1	1	2	1			2
China Wood Oil, Tung Oil	3	1	1	1	2	1			3
Chloral / Chloral Hydrate		Coi	ntact a	Victau	lic Sale	s Repr	esenta	tive	
Chloranthraquinone	3	2	2	2	3	1			
Chlordane	3	2	2	2	3	1			3
Chlorextol	3	2	2	2	2	1		3	3
Chloric Acid	1	3	3	3	1	3			2
Chloric Acid to 20%	1	3	3	3	2	3			2
Chlorinated Solvents, Dry	3	3	3	3	3	1			3
Chlorinated Solvents, Wet	3	3	3	3	3	1			3
Chlorine Dioxide	3	3	3	3	3	1			



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							l	l			
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	Insufficient Data			0	3ADE 1ydrog	\@\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ا کی	(Fluo	Halog	(Epic	00
	Chemical				<u> </u>						
Chlorine Dio	xide, 8% Cl as NaClO2 in solution		3	3	3	3	3	3			
Chlorine Gas	s (Dry)		3	3	3	3	3	- 1		3	3
Chlorine Gas	s (Wet)		3	3	3	3	3	3		3	3
Chlorine Liqu	uid (Dry)		3	3	3	3	3	1		3	3
Chlorine Liqu	uid (Wet)		3	3	3	3	3	3		3	3
Chlorine Trif	luoride		3	3	3	3	3	3		3	3
Chlorine Wa	ter 50ppm max.		2	3	3	3	3	3			
Chlorine Wa	ter 5ppm max.		1	3	3	3	3	3			
Chloro 1-Niti	ro Ethane (1-Chloro 1-Nitro Ethane) F	ctory	3	3	3	3	3	3			3
Chloro Xyler	nols		3	2	2	2	3				
Chloroaceta	ldehyde		1	3	3	3	1	3			2
Chloroacetic	Acid		2	3	3	3	3	3			
Chloroaceto	ne		1	3	3	3	3	3			3
Chloroamino	Benzoic Acid		1	3	3	3	1	3			2
Chloroaniline	e		1	3	3	3	1	3			2
Chlorobenza	aldehyde		1	3	3	3	1	3			2
Chlorobenze	ene Chloride		3	2	2	2	3	1			
Chlorobenze	ene Trifluoride		3	2	2	2	3	1			
Chlorobenze	ene, Mono, Di, Tri		3	3	3	3	3	1		3	3
Chlorobenzo	ochloride		3	2	2	2	3	1			
Chlorobenzo	otrifluoride		3	2	2	2	3				
Chlorobromo	omethane			Co	ntact a	Victau	lic Sale	s Repr	esenta	tive	
Chlorobromo	opropane		3	2	2	2	3	1			
Chlorobutad	iene		3	3	3	3	3	1			3
Chlorobutan	e (Butyl Chloride)		3	1	1	1	2	1			2
Chlorododeo	cane		3	3	3	3	3	1			3
Chloroethan	е		3	1	1	- 1	2	1		3	2



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1 Most Applications				GRADE ST / GRADE H (Hydrogenated Nitrile)	(ier)	utyl)	in)	
2 Limited Applications	Ш	ΣĽ	E (GRA ed N	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	E L ne)
3 Restricted Application	rade	(EPDM)	GRADE 1 (Nitrile)	ST / enat	RAD ite N	3AD sopre	GRADE O oroelaston	3ADI enate	ADE	GRADE L (Silicone)
Insufficient Data			8	DE (drog	GF (Wh	<u>2</u>	GF	GF aloge	GR	S)
				GRA (Hy			Э)	(H	(F	
Chemica										
Chloroethane Sulfonic Acid		1	3	3	3	1	3			2
Chloroethylbenzene		3	2	2	2	3	1			
Chloroform		3	3	3	3	3	2			3
Chlorohydrin	500	1	3	3	3	1	1			2
Chloromethane (Methyl Chloride)		3	3	3	3	3	3			3
Chloronaphthalene or o-Chloronaphthalene		3	3	3	3	3	1			3
Chloronitrobenzene		1	3	3	3	1	3			2
Chlorophenol or o-Chlorophenol		3	3	3	3	3	3			3
Chloropicrin		3	2	2	2	3	3			
Chloroprene		3	2	2	2	3	3			
Chlorosilanes	-									
Chlorosulphonic Acid							s Repr	esenta	tive	
Chlorotoluene		3	3	3	3	3	1			3
Chlorotoluene Sulfonic Acid		1	3	3	3	1	3			2
Chlorotoluidine		3	2	2	2	3	3			
Chlorotrifluoroethylene (CTFE)							3			
Chlorox		2	2	2	2	3	1		1	2
Chloroxylols							3			
Cholesterol		3	2	2	2	3	1			
Chrome Alum		1	1	1	1	1	1			1
Chrome Plating Solutions		2	3	3	3	3	1			2
Chromic Acid		3	3	3	3	3	1			3
Chromic Acid, to 25%		1	3	3	3	3	1			3
Chromic Oxide		2	3	3	3	3	1			
Chromium Potassium Sulfate (Alum)		2	2	2	2		1			1
Cinnamic Acid		3	2	2	2	3	1			
Cinnamic Alcohol		3	2	2	2	3	1			

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Cinnamic Aldehyde	3	2	2	2	3	3			
Circo Light Process Oil	3	1	1	1	2	- 1			3
Citric Acid	1	1	1	1	1	1		1	1
City Service #65 #120 #250	3	1	1	1	2	1			3
City Service Koolmoter-AP Gear Oil 140-EP Lube	3	1	1	1	2	1			3
City Service Pacemaker #2	3	1	1	1	2	- 1			3
Clorox	2	2	2	2		- 1		1	
Coal Tar	3	- 1	- 1	1	3	- 1		3	3
Cobalt Chloride	1	1	1	1	1	1			3
Cobalt Chloride, 2N	1	1	1	1	1	1			2
Cobaltous Acetate	1	3	3	3	1	3			2
Cobaltous Bromide	1	1	1	1	1	1			1
Cobaltous Linoleate	1					1			
Cobaltous Naphthenate	1					1			
Cobaltous Sulfate	1	3	3	3	1	2			2
Coca-Cola	1	1	- 1	1	2	2			1
Coconut Oil	3	1	1	1	3	1			1
Cod Liver Oil	1	1	1	1	2	1			2
Codeine	3	2	2	2	3	- 1			
Coffee	1	1	1	1	1	1			1
Coke Oven Gas	3	3	3	3	3	1			2
Coliche Liquors	2	2	2	2	1				
Convelex 10		3	3	3	3	1			3
Coolanol 20 25R 35R 40& 45A (Monsanto)	3	1	1	1	2	- 1			3
Copper Acetate	1	2	2	2	2	3			3
Copper Ammonium Acetate	1	3	3	3	1	3			2
Copper Carbonate	1	3	3	3	1	1			2



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								1		
	Rating Code Key			I						
1	Most Applications						Jer)	nty)	j. Ē	
2	Limited Applications	⊞⊋	⊕ E ⊢	GR/ ed N	E A I	E V	E O	E M B B	M2 hydi	E L
3	Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	ST/ enat	3AD ite N	GRADE V (Neoprene)	3AD belag	3ADI enate	GRADE M2 pichlorohydri	GRADE L (Silicone)
	Insufficient Data	0.00	9	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	p S	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	19 (S)
				Ϋ́Ε̈́Ε			L III	H H		
	Chemical			0 -						
Copper Chlo	oride	1	1	1	1	2	1			1
Copper Cya	anide	1	1	1	1	1	1			1
Copper Fluc	oride	1	1	1	1	1	2			
Copper Glue	conate	1	3	3	3	1				2
Copper Nap	phthenate						1			
Copper Nitra	ate	2	2	2	2		1			
Copper Oxio	de	1	1	1	- 1	1	1			1
Copper Plat	ting Solution	1	1	1	1	2	1			3
Copper Plat	ting Solution, Acid	1	3	3	3	1	1			3
Copper Salt	ts	1	1	1	1	1	1			1
Copper Sulf	fate	1	1	1	1	1	- 1			1
Corn Oil		3	- 1	1	1	3	- 1		- 1	1
Corn Starch	n, Slurry	1	1	1	1	3	- 1			3
Corn Syrup		1	1	1	1	1	- 1			1
Cottonseed	Oil	2	1	1	1	3	- 1		- 1	1
Creosote, C	Coal Tar	3	- 1	1	1	2	1		3	3
Creosote, W	Vood Tar	3	- 1	1	1	2	1		3	3
Cresol (Met	hyl Phenol)	3	3	3	3	3	1			3
Cresols		3	3	3	3	3	- 1			3
Cresylic Aci	id	3	3	3	3	3	1			3
Crotonaldeh	nyde	3	2	2	2	3	3			
Crotonic Ac	id	3	2	2	2	3	3			
Cumaldehyo	de	3	2	2	2	3	- 1			
Cumene		3	3	3	3	3	- 1			3
Cupric Sulfic	de		- 1	1	-1		1			
Cutting Oil		3	- 1	1	1	2	1			3
Cyanides		1								



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, ,	1			3					3
Cyclohexane	3	3	3	1	3	3			3
Cyclohexanol	3	2	2	2	2	1			3
Cyclohexanone	2	3	3	3	3	3		3	3
Cyclohexene	3	2	2	2	3	3			
Cyclohexylamine	3	1	1	1	2	3			2
Cyclohexylamine Laurate	3	1	1	1	2	1			2
Cyclopentadiene	3	2	2	2	3	3			
Cyclopentane	3	1	1	1	3	1			3
Cyclopolyolefins	3	1	1	1	3	3			3
Cymene or p-Cymene	3	3	3	3	3	1			3
DDT (Dichlorodiphenyltrichloroethane)	3	2	2	2	3	1			
Decalin	3	3	3	3	3	1			3
Decane	3	- 1	- 1	- 1	1	1			2
Deionized Water (DI Water)	- 1	1	1	1	1	2			2
Delco Brake Fluid	1	3	3	3	2	3			3
Denatured Alcohol	1	- 1	1	1	1	1		1	1
Detergent, Water Solution	1	- 1	1	1	2	1			1
Developing Fluids (Photo)	2	1	1	1	1	1			1
Dexron	3	1	1	1	2	1			3
Dextrin	3	1	1	1	2	1			2
Dextro Lactic Acid	1	3	3	3	1	3			2
Dextron	3	- 1	1	1	2	1			3
Dextrose	1	3	3	3	1	3			2
Diacetone	1	3	3	3	3	3			3
Diacetone Alcohol	1	3	3	3	2	3		3	3

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Dialkyl Sulfat	es	1	3	3	3	1	3			2
Diamylamine		1	1	1	1	2	3			2
Diazinon		3	3	3	3	3	3			3
Dibenzyl (syn	n-Diphenylethane)	3	2	2	2	3	3			
Dibenzyl Ethe	er	2	3	3	3	3	3		3	
Dibenzyl Seb	acate	2	3	3	3	3	2			3
Dibromoetha	ne	3	2	2	2	3	2			
Dibromoethyl	Benzene (Alkazene)	3	3	3	3	3	2			3
Dibutyl Cellos	solve Adipate	1	3	3	3	1	3			2
Dibutyl Ether		3	3	3	3	3	3			3
Dibutyl Methy	lenedithio Glycolate	3	2	2	2	3	1			
Dibutyl Phtha	late	2	3	3	3	3	3		3	2
Dibutyl Seba	cate	2	3	3	3	3	2		3	2
Dibutyl Thiog	lycolate	3	2	2	2	3	1			
Dibutyl Thiou	rea	3	2	2	2	3	1			
Dibutylamine		1	3	3	3	3	3			3
Dichloroaceti	c Acid	3	2	2	2	3	3			
Dichloroanilin	ne	- 1	3	3	3	1	3			2
Dichlorobenz	ene or o-Dichlorobenzene	3	3	3	3	3	1			3
Dichlorobenz	ene or p-Dichlorobenzene	3	3	3	3	3	1			3
Dichlorobutar	ne	3	2	2	2	3	1			3
Dichlorobuter	ne	3	2	2	2	3	3			
Dichlorodifluo	promethane (dry)	3	- 1	- 1	1	1	3		1	3
Dichlorodifluo	promethane (wet)	2	3	3	3	3	3			3
Dichlorodiphe	enyl-Dichloroethane (DDD)	3	2	2	2	3	1			
Dichloroethar	ne	3	2	2	2	3	1			
Dichloroethyl	ene	3	2	2	2	3	1			

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1 2	Most Applications Limited Applications	Ш(V	E T (e)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	E L ine)
3	Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	ST /	RAD hite	RAD	RAD	RAD	RAD	GRADE L (Silicone)
	Insufficient Data		٥	ADE	®	02	On L	lalog	(Epical	000
	Chemical			R. F.				=		
Dichlorohydr	in	1	3	3	3	1	3			2
Dichloroisopi	ropyl Ether	3	3	3	3	3	3			3
Dichlorometh	nane (Methylene Chloride)	3	2	2	2	3	3			
Dichloropher	nol	3	2	2	2	3	3			
Dichloropher	noxyacetic Acid	3	2	2	2	3	1			
Dichloroprop	ane	3	2	2	2	3	1			
Dichloroprop	ene	3	2	2	2	3	3			
Dicyclohexyl	amine	3	3	3	3	3	3			2
Dicyclohexyl	ammonium Nitrate	1	3	3	3	1	3			2
Dieldrin		3	2	2	2	3	3			
Diesel Oil		3	- 1	1	1	3	- 1		1	3
Di-ester Lubi	ricant MIL-L-7808	3	2	2	2	3	1			3
Di-ester Synt	thetic Lubricants	3	2	2	2	3	1	1		3
Diethanolam	ine (DEA)	1	3	3	3	1	3			2
Diethyl Benz	ene	3	3	3	3	3	1			3
Diethyl Carbo	onate	1	3	3	3	1	3			2
Diethyl Ether		3	3	3	3	3	3			3
Diethyl Phtha	alate	3	2	2	2	3	3			
Diethyl Seba	cate	2	2	2	2	3	3			2
Diethyl Sulfa	te	1	3	3	3	3	3			2
Diethylamine	•	2	2	2	2	2	3			2
Diethylaniline	9	1	3	3	3	1	3			2
Diethylene G	ilycol	1	1	1	1	1	1		1	2
Diethylenetri	amine	1	3	3	3	3	3			3
Difluorodibro	momethane	2	3	3	3	3				3
Difluoroethar	ne	3	2	2	2	3	3			
Difluoromono	ochloroethane	3	2	2	2	3	3			

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Diglycol Chloroformate	1	3	3	3	1	3			2
Diglycolic Acid	1	3	3	3	1	3			2
Dihydroxydiphenylsulfone	1	3	3	3	1	3			2
Diisobutyl Ketone	1	3	3	3	3	3			3
Diisobutylcarbinol	3	1	1	1	2	1			2
Diisobutylene	3	2	2	2	3	1			3
Diisooctyl Sebacate	3	3	3	3	3	2			3
Diisopropanolamine	1	3	3	3	3	3			
Diisopropyl Benzene	3	3	3	3	3	1			
Diisopropyl Ketone	1	3	3	3	3	3			3
Diisopropylidene Acetone (Phorone)	3	3	3	3	3	3			3
Dimethyl Acetamide	1	3	3	3	- 1	3			2
Dimethyl Aniline (Xylidine)	2	3	3	3	3	3			3
Dimethyl Disulfide (DMDS)	3	- 1	1	1	2	1			2
Dimethyl Ether	2	- 1	1	1	3	3			1
Dimethyl Formaldehyde	1	3	3	3	- 1	3			2
Dimethyl Formamide (DMF)	2	2	2	2	3	3			2
Dimethyl Hydrazine	1	3	3	3	- 1	3			2
Dimethyl Phenyl Carbinol	3	2	2	2	3	- 1			
Dimethyl Phenyl Methanol	3	2	2	2	3	1			
Dimethyl Phthalate	2	3	3	3	3	2			
Dimethyl Sulfoxide (DMSO)	1	3	3	3	- 1	3			2
Dimethyl Terephthalate (DMT)	3	2	2	2	3	2			3
Dimethylamine (DMA)	1	2	2	2	2	3			2
Dinitrochlorobenzene	3	2	2	2	3	1			3
Dinitrotoluene (DNT)	3	3	3	3	3	3			3
Dioctyl Phthalate	2	3	3	3	3	2		3	3

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Chemical			GRA (Hyo			Е)	(Hs	<u> </u>	
Dioctyl Sebacate	2	3	3	3	3	2		3	3
Dioctylamine	3	1	1	1	2	3			3
Dioxane	2	3	3	3	3	3			3
Dioxolane	2	3	3	3	3	3			3
Dipentene	3	2	2	2	3	1			3
Diphenyl	3	3	3	3	3	1			3
Diphenyl Oxides	3	3	3	3	3	1			3
Diphenylamine (DPA)	3	2	2	2	3	3			
Diphenylpropane	3	2	2	2	3	3			
Dipropylene Glycol	1	- 1	- 1	1	1	1			
Disodium Phosphate	1	1	1	1	1	1			
Divinyl Benzene	3	3	3	3	3	1			3
Dodecyl Alcohol	1	1	1	1	1	3			
Dodecylbenzene	3	2	2	2	3	1			
Dow Chemical 50-4	1	3	3	3	2	3			
Dow Chemical ET378	3	3	3	3	3	3			3
Dow Chemical ET588	1	3	3	3	2	3			
Dow Corning -11	1	2	2	2	1	1			2
Dow Corning 1208, 4050, 6620, F-60, XF-60	1	1	1	1	1	1			3
Dow Corning -1265 Fluorosilicone Fluid	1	2	2	2	1	1			1
Dow Corning -200	1	2	2	2	1	1			3
Dow Corning -220	1	1	1	1	1	1			3
Dow Corning -3	1	2	2	2	1	1			2
Dow Corning -33	1	2	2	2	1	1			3
Dow Corning -4	1	2	2	2	1	1			2
Dow Corning -44	1	2	2	2	1	1			3
Dow Corning -5	1	2	2	2	1	1			3

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Dow Corning -510	1	2	2	2	1	1			3
Dow Corning -55	1	2	2	2	1	1			3
Dow Corning -550	1	2	2	2	1	1			3
Dow Corning -704	1	2	2	2	1	1			3
Dow Corning -705	1	2	2	2	1	1			3
Dow Corning -710	1	2	2	2	1	1			3
Dow Corning F-61	1	1	1	1	1	1			3
Dow Guard	1	1	1	1	1	1			1
Dowanol P	1	3	3	3	3	3			3
Dowtherm A	3	3	3	3	3	1			3
Dowtherm E	3	3	3	3	3	1			3
Dowtherm SR-1	1	1	1	1	1	1			3
Dowtherm, 209	1	3	3	3	3	3			3
Dry Cleaning Fluids	3	3	3	3	3	1			3
DTE 20 Series, Mobil	3	2	2	2	1	1			3
DTE named series, Mobil, light-heavy	3	1	1	1	2	1			3
Elco 28-EP lubricant	3	1	1	1	3	1			2
Epichlorohydrin	2	3	3	3	3	3			3
Epoxy Resins	1	3	3	3	1	3			
Esam-6 Fluid	1	3	3	3	2	3			
Esso Fuel 208	3	- 1	1	1	2	1			3
Esso Golden Gasoline	3	2	2	2	3	1			3
Esso Motor Oil	3	1	1	1	3	1			3
Esso Transmission Fluid (Type A)	3	1	1	1	2	1			3
Esso WS2812 (MIL-L-7808A)	3	1	1	1	3	1			3
Esso XP90-EP Lubricant	3	1	1	1	2	1			3
Esstic 42, 43	3	1	1	1	2	1			3

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Ethane	3	1	1	1	2	1			3
Ethanol	1	3	3	3	1	2		2	2
Ethanolamine	1	2	2	2	2	3		2	2
Ethers	3	3	3	3	3	3			3
Ethoxyethyl Acetate (EGMEEA)	1	3	3	3	1	3			2
Ethyl Acetate	2	3	3	3	3	3		3	2
Ethyl Acetoacetate	2	3	3	3	3	3		2	2
Ethyl Acrylate	2	3	3	3	3	3		3	
Ethyl Acrylic Acid	2	3	3	3	2	3 2		2	2
Ethyl Alcohol	1	3	3	3	2	3		3	3
Ethyl Amines Ethyl Benzene	3	3	3	3	3	1		3	3
Ethyl Benzoate	3	3	3	3	3	1			3
Ethyl Bromide	3	2	2	2	3	1			3
Ethyl Cellosolve	2	3	3	3	3	3			3
Ethyl Cellulose	2	2	2	2	2	3			2
Ethyl Chloride	3	1	1	1	3	1		2	3
Ethyl Chlorocarbonate	2	3	3	3	3	1			3
Ethyl Chloroformate	2	3	3	3	3	3			3
Ethyl Cyclopentane	3	1	1	1	3	1			3
Ethyl Ether	3	3	3	3	3	3		3	3
Ethyl Formate	2	3	3	3	2	1		3	
Ethyl Hexanol	1	1	1	1	1	1			2
Ethyl Lactate	1	3	3	3	1	3			2
Ethyl Mercaptan	3	3	3	3	3	2		3	3
Ethyl Nitrite	1	3	3	3	1	3			2
Ethyl Oxalate	1	3	3	3	3	1		3	3

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SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION 2

Gasket Chemical Services Guide

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		1	ı		I	I			
Rating Code Key 1 Most Applications 2 Limited Applications 3 Restricted Applications Insufficient Data Chemical	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
Ethyl Pentachlorobenzene	3	3	3	3	3	1		3	3
Ethyl Pyridine	3	2	2	2	3	3			3
Ethyl Silicate	1	1	1	1	1	1		1	3
Ethyl Stearate	3	2	2	2	3	1			
Ethyl Sulfate	1	3	3	3	1	3			1
Ethyl Tertiary Butyl Ether	3	3	3	3	3	1			
Ethyl Valerate	3	2	2	2	3	1			
Ethylene	3	2	2	2	3	1		2	3
Ethylene Chloride	3	3	3	3	3	2		3	3
Ethylene Chlorohydrin	2	3	3	3	2	1			3
Ethylene Cyanohydrin	3	2	2	2	3	1			
Ethylene Diamine	1	1	1	1	1	3		1	1
Ethylene Dibromide	3	3	3	3	3	2			3
Ethylene Dichloride	3	3	3	3	3	1		3	3
Ethylene Glycol	1	1	1	1	1	1		1	1
Ethylene Glycol 30% + tap water @250F/121C	1								
Ethylene Glycol 50% + tap water @250F/121C	1								
Ethylene Hydrochloride	3	3	3	3	3	1			3
Ethylene Oxide		Cor	ntact a	Victau	lic Sale	s Repr	esenta	tive	
Ethylene Oxide, (12%) and Freon 12 (80%)						s Repr			
Ethylene Trichloride	3	3	3	3	3	1			3
Ethylmorpholene Stannous Octotate (50/50 mixture)	2	3	3	3					
Ethylmorpholine	3	2	2	2	3	1			
Ethylsulfuric Acid	1	3	3	3	- 1	3			2
F-60 Fluid (Dow Corning)	1	1	-1	1	1	1			3
F-61 Fluid (Dow Corning)	1	1	1	1	1	1			3
Fatty Acids	3	2	2	2	2	1			3



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Chemical			5						
FC-43 Heptacosofluorotri-butylamine	1	1	1	1	1	1			1
FC75 & FC77 (Fluorocarbon)	1	1	1	1	1	2			1
Ferric Acetate	1	3	3	3	1	3			2
Ferric Ammonium Sulfate	1	3	3	3	1	3			2
Ferric Chloride	1	1	- 1	1	1	1		1	2
Ferric Ferrocyanide	1	3	3	3	1	3			2
Ferric Hydroxide	1	3	3	3	1	3			2
Ferric Nitrate	1	-1	- 1	1	1	1		1	3
Ferric Persulfate	1	1	1	1	1	1			
Ferric Sulfate	1	1	1	1	1	1			2
Ferrous Ammonium Citrate	1	3	3	3	1	3			2
Ferrous Ammonium Sulfate	1	3	3	3	- 1	3			2
Ferrous Carbonate	1	3	3	3	- 1	3			2
Ferrous Chloride	1	-1	- 1	- 1	1	1			2
Ferrous lodide	1	3	3	3	1	3			2
Ferrous Nitrate	1	-1	- 1	- 1	1	1			2
Ferrous Sulfate	1	3	3	3	1	3			2
Ferrous Tartrate	1	3	3	3	- 1	3			2
Fish Oils	3	2	2	2	3	1			1
Fluorine (Gas, wet or dry)		Co	ntact a	Victau	lic Sale	s Repr	esenta	tive	
Fluorine (Liquid)	3	3	3	3	3	2			3
Fluorobenzene	3	3	3	3	3	1			3
Fluoroboric Acid	- 1	-1	- 1	1	1	1			1
Fluorocarbon Oils	1	1	1	1	1	3			
Fluorolube	1	1	1	1	2	2			1
Fluorosilicic Acid	2	1	1	1	2	1			3
Formaldehyde	2	3	3	3	3	3		2	2

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			1	I		1	T	1	ı	
	Rating Code Key			I T e						
1	Most Applications			ADE	<u></u>		ner)	Suty	ri.	
2	Limited Applications	ш̂ ®	E (GR.	A Jitrije	GRADE V (Neoprene)	GRADE O oroelaston	E M ed E	GRADE M2 oichlorohydr	GRADE L (Silicone)
3	Restricted Applications	Grade E (EPDM)	GRADE 7 (Nitrile)	ST / enat	AAD ite N	3AD	3AD oela	3AD enat	ADE Porc	AAD ilico
	Insufficient Data	00	\ <u>\alpha</u> \	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	ا تُعَقِّ	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	<u>_</u> <u>_</u> <u>_</u> <u> </u>
				ÄŽ			"	Ĕ		
	Chemical									
Formamide		1	3	3	3	1	3			2
Formic Acid		1	2	2	2	1	3		2	2
Freon 11		3	3	3	3	3	2			3
Freon 12		3	2	2	2	1	2		1	3
Freon 134a		1	1	1	1	1	2			3
Freon 21			Co	ntact a	Victau	lic Sale	s Repr	esenta	tive	
Freon 22		1	3	3	3	1	3		1	3
Freon, 112		3	2	2	2	3	3			3
Freon, 113		3	1	1	1	1	3		1	3
Freon, 114		1	1	1	1	1	2		1	3
Freon, 114B2	2	3	2	2	2	2	2			3
Freon, 115, 1	16	1	1	1	1	1	2			3
Freon, 12 and	d ASTM Oil #2 (50/50 Mixture)	3	2	2	2	3	2			3
Freon, 12 and	d Suniso 4G (50/50 Mixture)	3	2	2	2	3	2			3
Freon, 13		1	1	1	1	1	2		1	3
Freon, 13B1		1	1	1	1	1	1			3
Freon, 14		1	1	1	1	1	1			3
Freon, 142b		2	2	2	2	1	3			3
Freon, 152a		1	1	1	1	1	3			3
Freon, 21		3	3	3	3	3	3		2	3
Freon, 218		1	1	1	- 1	- 1	2			3
Freon, 22		1	3	3	3	1	3		1	3
Freon, 22 and	d ASTM Oil #2 (50/50 Mixture)	3	3	3	3	2	3		3	3
Freon, 31		1	3	3	3	2	3			3
Freon, 32		1	1	1	- 1	1	3			3
Freon, 502		1	2	2	2	1	3			3
Freon, BF (R	112)	3	2	2	2	3	2			3

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SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION 2

Gasket Chemical Services Guide



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	Rating Code Key			I						
1	Most Applications			GRADE ST / GRADE H (Hydrogenated Nitrile)			ier)	GRADE M (Halogenated Butyl)	i.	
2	Limited Applications	⊞(F	E) ⊥	GR/ N be	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	M B B	GRADE M2 (Epichlorohydrin)	E L ne)
3	Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	ST /	3AD te N	3AD	(AD)	ADI	ADE	GRADE L (Silicone)
	Insufficient Data	G E	P	Toge 1	P. P. S.	12 S	P p p	GF	GR	S)
	moumoient bata			Hyd			E.	(Ha	(E	
	Chemical			0						
Freon, C316		1	1	1	1	1	2			3
Freon, C318		1	1	1	1	1	2			3
Freon, K-142	b	1	1	1	1	1	3			3
Freon, K-152	a	1	1	1	1	1	3			3
Freon, MF (R	111)	3	1	1	1	3	2			3
Freon, PCA (R113)	3	1	1	1	1	2			3
Freon, TA		2	1	1	1	2	3			3
Freon, TC		2	1	1	1	1	2			3
Freon, TF (R	113)	3	1	1	1	1	2			3
Freon, TMC		3	2	2	2	3	2			3
Freon, T-P35		1	- 1	1	1	1	2			3
Freon, T-WD	602	2	2	2	2	2	2			3
Fuel oil		3	2	2	2	3	1			3
Fuel Oil, #6		3	2	2	2	3	1			3
Fuel Oil, 1, a	nd 2	3	1	1	1	3	1			3
Fuel Oil, Acid	lic	3	1	1	1	3	1			3
Fumaric Acid		2	1	1	1	2	1			3
Fuming Sulph	huric Acid (20/25% Oleum)	3	3	3	3	3	1			3
Furaldehyde		2	3	3	3	2	3			3
Furan			Coi	ntact a	Victaul	ic Sale	s Repr	esenta	tive	
Furfural (Furf	uraldehyde)	3	3	3	3	3	3			3
Furfuryl Alcoh	nol	2	3	3	3	3				3
Furyl Carbino	ol	2	3	3	3	3				3
Fyrquel 150 2	220 300 550	1	3	3	3	3	1			1
Fyrquel 90, 1	00, 500	1	3	3	3		1			
Fyrquel A60		2	3	3	3	3	3			
Fyrquel EHC		1	3	3	3	3	1			1

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Seal Selection Guide

SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION 2

ictaulic **Gasket Chemical Services Guide AWARNING** Revision: GSG-100 6490 Rev.(AA) The information contained herein is general in nature and recommendations are valid only for Victaulic compounds. Gasket compatibility is dependent upon a number of factors. Suitability for a particular application must be determined by a competent individual familiar with system-specific conditions. Victaulic offers no warranties, expressed or implied, of a product in any application. Contact your Victaulic sales representative to ensure the best gasket is selected for a particular service. Failure to follow these instructions could cause system failure, resulting in serious personal injury and property damage. **Rating Code Key** GRADE ST / GRADE I (Hydrogenated Nitrile) GRADE M (Halogenated Butyl) GRADE M2 (Epichlorohydrin) **Most Applications** GRADE O (Fluoroelastomer) GRADE A (White Nitrile) GRADE V (Neoprene) GRADE L (Silicone) GRADE T (Nitrile) 2 **Limited Applications** 3 **Restricted Applications Insufficient Data** Chemical Gallic Acid Contact a Victaulic Sales Representative Gas. Natural Gasoline 3 3 Gasoline Refined Leaded ---Gasoline, Refined Unleaded Gasoline/Ethanol Mixtures 2 2 ---Gelatin Germane (Germanium Tetrahydride) ------------------------Girling Brake Fluid Glauber's Salt 2 2 1 ---Gluconic Acid 2 3 Glucose Glue ---1 ---Glutamic Acid 3 3 3 ------------Glycerin/Glycerol ---Glycerol Dichlorohydrin 2 Glycerol Monochlorohydrin 2 ---------Glycerol Triacetate 2 2 Glycerophosphoric Acid ---------Glyceryl Phosphate 2 2 Glycidol ---------Glycol Glycol Ethylene Glycol Monoether 2 Glycolic Acid 3 3 2 ------2 Glycoxylic Acid 2 ---Grease Petroleum Base



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	Rating Code Key			I C						
2	Most Applications Limited Applications	Ш. Ф	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
3	Restricted Applications	Grade E (EPDM)	A Selection	ST /	3AD te N	3AD	3AD selas	3ADI	ADE	A Eigo
	Insufficient Data	0.00	P	DE 9	P. S. J.	12 S	n on	R B B	GR	(S)
				HyS H			Ε)	E		
	Chemical			0						
Green Sulfat	e Liquor (Pulp Mill)	1	2	2	2	2	1		2	1
Gulf Endurar	nce Oils	3	1	1	1	2	1			3
Gulf FR Fluid	ds (Emulsion)	3	- 1	1	1	2	1			3
Gulf FR G-FI	uids	1	- 1	- 1	- 1	1	1			1
Gulf FR P-Fli	uids	2	3	3	3	3	2			1
Gulf Harmon	y Oils	3	1	1	1	2	1			3
Gulf High Te	mperature Grease	3	- 1	1	1	2	1			3
Gulf Legion (Oils	3	- 1	1	1	2	1			3
Gulf Paramo	unt Oils	3	1	1	1	2	1			3
Gulf Security	Oils	3	1	1	1	2	1			3
Gulfcrown G	rease	3	1	1	1	2	1			3
Halowax Oil		3	3	3	3	3	1			3
Hannifin Lub	e A	3	1	1	1	1	1			2
Heavy Water	r	1	1	1	1	2	3			1
HEF-2 (High	Energy Fuel)	3	2	2	2	3	- 1			3
Helium		1	1	1	1	1	1			1
Heptachlor		3	2	2	2	3	3			
Heptachlorob	putene	3	2	2	2	3	1			
Heptaldehyd	e (Heptanal)	3	- 1	1	1	2	3			2
Heptane or n	n-Heptane	3	- 1	1	1	2	- 1			3
Heptanoic Ad	cid	3	- 1	1	1	2	- 1			2
Hexachloroa	cetone	1	3	3	3	- 1	3			2
Hexachlorob	utadiene	3	2	2	2	3	- 1			
Hexachlorob	utene	3	2	2	2	3	- 1			
Hexachloroe	thane	3	2	2	2	3	3			
Hexaldehyde	e or n-Hexaldehyde	1	3	3	3	- 1	3			2
Hexamethylo	disilizane						- 1			

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	Rating Code Key			I						
1	Most Applications			GRADE ST / GRADE H (Hydrogenated Nitrile)) (e)	. ~	ner)	GRADE M (Halogenated Butyl)	2 Irin)	
2	Limited Applications	Grade E (EPDM)	GRADE T (Nitrile)	G H	 	GRADE V (Neoprene)	GRADE O oroelaston	E N ed F	E M	GRADE L (Silicone)
3	Restricted Applications	arad EPC	REF	ST /	AAE ite l	3AF	ZAD oela	RAD enat	AD Jorg	BAE
	Insufficient Data	000	<u> </u>	NDE drog	GRADE A (White Nitrile)	σž	GRADE O (Fluoroelastomer)	GF	GRADE M2 (Epichlorohydrin)	<u>600</u>
				A E E				E		
	Chemical			Ŭ						
_	ene (Cyclohexane)	3	1	1	1	2	1			2
_	ene Diammonium Adipate	3	2	2	2	3	1			
Hexamethyle		1	3	3	3	1	3			2
Hexane or n-		3	1	1	1	2	1		1	3
Hexene-1 or		3	2	2	2	2	1			3
	thyl Isobutyl Ketone)	2	3	3	3	3	3		3	3
Hexyl Acetat		3	1	1	1	2	3			2
Hexyl Alcoho		3	1	1	1	2	1			2
Hexylene Gly	<u>′</u>	1	3	3	3	1	1			2
Hexylresorcii		3	2	2	2	3	3			
	ty Lubricant, H2	1	1	1	1	2	1			1
_	ty Lubricant, U4	1	1	1	1	2	1			1
HiLo MS #1		1	3	3	3	3	3			3
	e 1010 phosphate ester	1	3	3	3	3	1			3
	e 1055 phosphate ester	1	3	3	3	3	1			3
_	e 1120 phosphate ester	2	3	3	3	3	1			3
	e 271 (Water & Glycol Base)	1	1	1	1	2	3			2
_	e 416 & 500 Series	1	1	1	1		2			
_	e 5040 (Water/Oil emulsion)	3	1	1	1	2	2			3
	e 620 Water/Glycol	1	1	1	1	2	2			2
	(Petroleum Base, Industrial)	3	1	1	1	2	1		1	3
	ls (Synthetic Base)	3	1	1	1	3	3			
Hydrazine		1	2	2	2	2	3			2
Hydrazine (A		2	3	3	3	2	3			
-	ihydrochloride	1	3	3	3	1	3			2
Hydrazine Hy		1	3	3	3	1	3			2
Hydriodic Ac	id	3	2	2	2	3	- 1			

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		1	I	I	ı	I			
1 Most Applications 2 Limited Applications 3 Restricted Applications Insufficient Data	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
Chemical			GRAI (Hyd			<u>H</u>)	(На	(E	
Hydroabietyl Alcohol									
Hydrobromic Acid	1	3	3	3	3	1			3
Hydrobromic Acid 40%	1	3	3	3	2	1			3
Hydrocarbons, Saturated	3	- 1	1	1	2	2		3	3
Hydrochloric Acid (cold) 37%	3	3	3	3	3	1		3	3
Hydrochloric Acid (hot) 37%	3	3	3	3	3	2		3	3
Hydrochloric Acid, 3 Molar to 158°F/70C	1	2	2	2	2	1		3	3
Hydrochloric Acid, to 36%, 158°F/70°C	3	3	3	3	3	2		3	3
Hydrochloric Acid, to 36%, 75°F/24°C	2	3	3	3	3	1		3	2
Hydrocyanic Acid	1	2	2	2	2	1			3
Hydro-Drive MIH-10 (Petroleum Base)	3	1	1	1	2				2
Hydro-Drive MIH-50 (Petroleum Base)	3	1	1	1	2				2
Hydrofluoric Acid (Anhydrous)		Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive	
Hydrofluoric Acid (conc.) Cold		Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive	
Hydrofluoric Acid (conc.) Hot		Coi	ntact a	Victaul	lic Sale	s Repr	esenta	tive	
Hydrofluorosilicic Acid (Fluosilicic Acid)	1	2	2	2	3	1		-	3
Hydrogen Bromide (Anhydrous)	1	3	3	3	3	1			3
Hydrogen Chloride (Anhydrous)	1	3	3	3	2	1		1	3
Hydrogen Chloride gas	1	3	3	3	2	1		-	3
Hydrogen Cyanide	1	3	3	3	3	3			3
Hydrogen Fluoride	3	3	3	3	3	3			3
Hydrogen Fluoride (Anhydrous)	3	3	3	3	3	3			3
Hydrogen Gas	1	1	1	1	1	1			3
Hydrogen Iodide (Anhydrous)	3	2	2	2	3	1			
Hydrogen Peroxide	3	3	3	3	3	3		3	3
Hydrogen Peroxide, 0 - 30%	3	3	3	3	3	1			2
Hydrogen Peroxide, 30 - 50%	3	3	3	3	3	1			2

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Chemical			AR EX				Ŧ		
Hydrogen Peroxide, 50% - 90%	3	3	3	3	3	3		3	2
Hydrogen Sulfde, Dry Gas	1	1	- 1	1	1	3			3
Hydrogen Sulfde, Wet Gas	1	3	3	3	1	3		3	3
Hydrogen Sulfide, Dry, Cold	1	1	1	1	1	3			3
Hydrogen Sulfide, Dry, Hot	1	3	3	3	2	3			3
Hydrogen Sulfide, Wet, Cold	1	3	3	3	1	3		3	3
Hydrogen Sulfide, Wet, Hot	1	3	3	3	2	3		3	3
Hydrolube-Water/Ethylene Glycol	1	1	- 1	1	2	- 1			2
Hydrooxycitronellal					3	1			
Hydroquinol	3	3	3	3	3				
Hydroquinone	2	3	3	3	3	3			3
Hydroxyacetic Acid	1	3	3	3	- 1	3			2
Hydyne	1	2	2	2	2	3			3
Hyjet	1	3	3	3	3	3			3
Hyjet IV and IVA	1	3	3	3	3	3			3
Hyjet S4	1	3	3	3	3	3			
Hyjet W	1	3	3	3	3	3		3	
Hypochlorous Acid	2	3	3	3	3	1		3	3
Hypochlorous Acid, 0% - 10%	1	3	3	3	3	1		3	3
Indole					3	1			
Industron FF44	3	1	-1	1	2	1			3
Industron FF48	3	1	-1	1	2	1			3
Industron FF53	3	1	-1	1	2	1			3
Industron FF80	3	1	- 1	1	2	1			3
Insulin	1	3	3	3	1	3			2
lodic Acid	1	3	3	3	1	3			2
lodine	2	2	2	2	3	1			

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Rating Code Key 1 Most Applications 2 Limited Applications 3 Restricted Applications Insufficient Data Chemical	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
lodine Pentafluoride Factory	3	3	3	3	3	3		3	3
lodine, Sat'd Vapor at room temp									
lodoform	3				3	3			
Isoamyl Acetate	1	3	3	3	3	3			
Isoamyl Butyrate	1	3	3	3	1	3			
Isoamyl Valerate	1	3	3	3	3	3			
Isoboreol					3	1			
Isobutane	3	1	1	1	2	1			
Isobutyl Acetate	1	3 2	3	3	1	3			2
Isobutyl Alcohol Isobutyl Alcohol, 10%	1	2	2	2	1	1			1
Isobutyl Chloride	3	3	3	3	3	1			
Isobutyl Ether	3	2	2	2	3	3			
Isobutyl Methyl Ketone	1	3	3	3	1	3			2
Isobutyl n-Butyrate	1	3	3	3	3	1			
Isobutyl Phosphate	1	3	3	3	1	3			2
Isobutylene	1				3	1			
Isobutyraldehyde	2	3	2	3	3	3			
Isobutyric Acid	2	1	1	1	3	3			2
Isobutyric Acid, 50%	2	1	1	1	3	3			
Isocaproic Acid									
Isocrotyl Chloride					3	1			
Isodecanol	3	- 1	1	1	2	1			2
Isododecane	3	- 1	1	1	2	1			3
Isoeugenol	3	- 1	1	1	2	1			2
Isononyl Alcohol									
Isooctane	3	1	1	1	1	2		1	3

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Isopentane	3	1	1	1	1	2			2
Isophorone (Ketone)	2	3	3	3	3	3			3
Isopropanol	1	2	2	2	2	- 1			1
Isopropyl Acetate	2	3	3	3	3	3			3
Isopropyl Alcohol	1	2	2	2	2	1	1		1
Isopropyl Chloride	3	3	3	3	3	1			3
Isopropyl Ether	3	2	2	2	3	3			3
Isopropylacetone	1	3	3	3	- 1	3			2
Isopropylamine	1	3	3	3	- 1	3			2
Jet Fuel A	3	2	2	2	3	- 1			
JP-10	3	3	3	3	3	1			3
JP-3 (MIL-J-5624)	3	1	1	1	3	1			3
JP-4 (MIL-T-5624)	3	1	1	1	3	1			3
JP-5 (MIL-T-5624)	3	1	1	1	3	1			3
JP-6 (MIL-J-25656)	3	1	1	1	3	1			3
JP-8 (MIL-T-83133)	3	1	- 1	1	3	- 1			3
JP-9 (MIL-F-81912)	3	3	3	3	3	- 1			3
JP-9 -11	3	3	3	3	3	- 1			3
JPX (MIL-F-25604)	3	1	- 1	1	3	3			3
Kel F Liquids	1	1	1	1		2			1
Kerosene	3	1	1	1	2	1			3
Keystone #87HX-Grease	3	1	1	1	3	1			3
Lacquer Solvents	3	3	3	3	3	3		3	3
Lacquers	3	3	3	3	3	3		3	3
Lactams-Amino Acids	2	3	3	3	2	3			
Lactic Acid, Cold	1	1	1	1	1	1			1
Lactic Acid, Hot	3	3	3	3	3	1			2

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Revision: GSG-100 6490 Rev.(AA)

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3	Restricted Applications Insufficient Data	Grac (EP)	GRA (Nit	DE ST drogena	GRA (White	GRA (Neop	GRA Iuoroel	GRAI	GRAE	GRA (Silic
	Chemical			GRA (Hy			ш.	l Ï		
Lactones (Cy	rclic Esters)	2	3	3	3	3	3			2
Lard		2	1	- 1	1	2	- 1		1	2
Lauric Acid		3	1	1	1	2	1			2
Lavender Oil		3	2	2	2	3	1			3
LB 135		1	1	1	1	1	1			
Lead Acetate)	1	2	2	2	2	3		2	3
Lead Arsenat	te	1	3	3	3	1	3			2
Lead Bromide	е	1	3	3	3	1	3			2
Lead Carbon	ate	1	3	3	3	1	3			2
Lead Chloride	e	1	3	3	3	1	3			2
Lead Chroma	ate	1	3	3	3	1	3			2
Lead Dioxide		1	3	3	3	1	3			2
Lead Linolea	te	1	3	3	3	1	3			2
Lead Nitrate		1	1	1	1	1	1			2
Lead Oxide		1	3	3	3	1	3			2
Lead Sulfama	ate	1	2	2	2	1	1			2
Lead Sulfate		1	1	1	1	2	1			
Lehigh X1169	9	3	1	1	1	2	1			3
Lehigh X1170	0	3	1	1	1	2	1			3
Ligroin (Petro	oleum Ether or Benzene)	3	1	1	1	2	1			3
Lime and H2	0	1	1	1	1	1	3			3
Lime Bleach		1	1	1	1	2	1			
Lime Sulfur		1	1	1	1	2	1		2	
	aulic Fluid (Phosphate ester type)	1	3	3	3	3	2			3
Linoleic Acid		3	2	2	2	3	2			2
Linseed Oil		3	1	1	1	2	1		1	1
Liquid Oxyge	n (LOX) Factory	3	3	3	3	3	3	3	3	3

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1 2	Most Applications		- _	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	> (e)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	J (c)
	Limited Applications	Grade E (EPDM)	GRADE T (Nitrile)	7/G	H H	GRADE V (Neoprene)	GRADE O loroelaston	ated	I de l	GRADE L (Silicone)
3	Restricted Applications	Gra (EP	K.S.	ST	3RA hite	SRA Veo	3RA oroe	3RA gen	SPA Sho	SII(
	Insufficient Data			ADE	5		Jan E	lalo	(Epi	
	Chemical			R. T.				=		
Liquid Petrol	eum Gas (LPG)	3	1	1	1	2	1		1	3
Liquimoly		3	- 1	- 1	1	2	1			3
Lithium Bron	nide	1	3	3	3	1	3			2
Lithium Carb	oonate	1	3	3	3	1	3			2
Lithium Chlo	ride	1	3	3	3	1	3			2
Lithium Citra	ite	1	3	3	3	1	3			2
Lithium Hydr	roxide	1	3	3	3	1	3			2
Lithium Hypo	ochlorite	1	3	3	3	1	3			2
Lithium Nitra	ite	1	3	3	3	1	3			2
Lithium Nitrit	e	1	3	3	3	1	3			2
Lithium Perc	hlorate	1	3	3	3	1	3			2
Lithium Salid	cylate	1	3	3	3	1	3			2
Lithopone		1	3	3	3	1	3			2
Lubricating (Oil (Crude & Refined)	3	2	2	2	3	1			
Lubricating (Oils (Synthetic base)	3				3	- 1			
Lubricating (Dils, Di-ester	3	2	2	2	3	3			3
Lubricating (Dils, petroleum base	3	1	1	1	2	1		1	3
Lubricating (Dils, SAE 10, 20, 30, 40, 50	3	- 1	1	1	2	1			3
Lye Solution	s	1	2	2	2	2	3			2
Magnesium	Carbonate	2	1	1	1	1	1			
Magnesium	Chloride	1	1	1	1	1	1		1	1
Magnesium	Hydroxide	1	2	2	2	2	1		1	2
Magnesium	Nitrate	1	1	1	1	1	1			2
Magnesium	Salts	1	1	1	1	1	1			1
Magnesium	Sulfite and Sulfate	1	1	1	1	1	1		1	1
Magnesium 1	Trisilicate	1					1			1
Malathion		3	3	3	3	2	2			3

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3	Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	ST /	A N	AD oper	ADI	ADF	ADE	GRADE L (Silicone)
	Insufficient Data	0.00	125	DE S roge	P. M.	P.S.	GB	GB	GR, pich	RS(S)
	mounición Data			Hyd			<u> </u>	(Ha	"	
	Chemical			0						
Maleic Acid		3	3	3	3	3	- 1			3
Maleic Anhy	dride	2	3	3	3	3	3			
Maleic Hydra	azide	1	3	3	3	- 1	3			2
Malic Acid		2	- 1	- 1	1	2	- 1			2
Mandelic Ac	id	1	3	3	3	- 1	3			2
Manganese	Acetate	1	3	3	3	- 1	3			2
Manganese	Carbonate	1	3	3	3	- 1	1			2
Manganese	Chloride	1	3	3	3	1	3			2
Manganese	Dioxide	1	3	3	3	- 1	1			2
Manganese	Gluconate	1	3	3	3	1	1			2
Manganese	Hypophosphite	1	3	3	3	- 1	1			2
Manganese	Linoleate	1	3	3	3	1	1			2
Manganese	Naphthenate	1					1			1
Manganese	Phosphate	1	3	3	3	1	1			2
Manganese	Sulfate	1	3	3	3	1	1			2
Manganous	Chloride	1	3	3	3	1	3			2
Manganous	Phosphate	1	3	3	3	1	1			2
Manganous	Sulfate	1	3	3	3	1	1			2
Mannitol		1	3	3	3	1	1			2
MCS 312		3	3	3	3	3	1			1
MCS 352		1	3	3	3	3	3			3
MCS 463		1	3	3	3	3	3			3
MDI (Methyl	ene di-p-phenylene isocyanate)	1	3	3	3	- 1	3			2
Mercaptan		3	- 1	1	1	2	3			2
Mercaptober	nzothiazole (MBT)	1	3	3	3	3	- 1			
Mercuric Ace	etate	1	3	3	3	- 1	3			2
Mercuric Chi	loride	1	1	1	1	1	1		1	

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Mercuric Cya	nide	1	3	3	3	1	3			2
Mercuric lodio	de	1	3	3	3	1	3			2
Mercuric Nitra	ate	1	3	3	3	1	3			2
Mercuric Sulfa	ate	1	3	3	3	1	3			2
Mercuric Sulfi	ite	1	3	3	3	1	3			2
Mercurous Ni	trate	1	3	3	3	1	3			2
Mercury		1	1	1	1	1	1		1	
Mercury Chlo	ride	1	1	1	1	1	1		1	
Mercury Fulm	ninate	1	3	3	3	1	1			2
Mercury Salts	3	2	2	2	2	2	1			2
Mercury Vapo	ors	1	1	1	1	1	1			
Mesityl Oxide	(Ketone)	2	3	3	3	3	3			3
Meta-Cresol						3	2			
Metaldehyde		1	3	3	3	1	3			2
Meta-Nitroani	iline	1	3	3	3	1	3			2
Meta-Toluidin	ne					3	1			
Methacrylic A	cid	1	3	3	3	1	3			2
Methallyl Chic	oride					3	1			
Methane		3	1	1	1	2	1		1	3
Methanol (see	e Methyl Alcohol)	1	- 1	- 1	- 1	1	3		3	1
Methoxyethar		1	3	3	3	1	3			2
Methyl Abieta						3	3			
Methyl Acetat		1	3	3	3	2	3		3	3
Methyl Acetoa	acetate	2	3	3	3	3	3			2
Methyl Acetor	phenone					3	3			
Methyl Acryla		2	3	3	3	2	3			3
Methyl Alcoho	ol, Methanol	1	1	1	1	1	3		3	1

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Methyl Amylketone	1	3	3	3	1	3			2
Methyl Anthranilate					3	3			
Methyl Benzoate	3	3	3	3	3	1			3
Methyl Bromide	3	2	2	2	3	1			
Methyl Butyl Ketone	1	3	3	3	3	3			3
Methyl Butyrate Cellosolve	1	3	3	3	1				2
Methyl Butyrate Chloride	1	3	3	3	1	3			2
Methyl Carbonate	3	3	3	3	3	1			3
Methyl Cellosolve	2	3	3	3	3	3			3
Methyl Cellulose	2	2	2	2	2	3			2
Methyl Chloride	3	3	3	3	3	3			3
Methyl Chloroacetate	1	3	3	3	1	3	-		2
Methyl Chloroform	3	3	3	3	3	3			
Methyl Chloroformate	3	3	3	3	3	3			3
Methyl Chlorosilanes									
Methyl Cyanide (Acetonitrile)	1	3	3	3	1	3			2
Methyl Cyclohexanone	3	1	1	1	2	3			2
Methyl Cyclopentane	3	3	3	3	3	1			3
Methyl Dichloride					3	1			
Methyl Ester (Biodiesel B-100) with <0.5% water, t	180°F/82°C 3	3		3	3	1			3
Methyl Ether	3	- 1	- 1	1	3	3			- 1
Methyl Ethyl Ketone	1	3	3	3	3	3		3	3
Methyl Ethyl Ketone Peroxide	3	3	3	3	3	3			2
Methyl Ethyl Oleate					3	1			
Methyl Formate	2	3	3	3	2	3		3	
Methyl Hexyl Ketone (2-Octanone)	1	3	3	3	1	3			2
Methyl lodide	3	1	1	1	2	1			2



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	Rating Code Key			I.						
1	Most Applications			GRADE ST / GRADE H (Hydrogenated Nitrile)			ler)	utyl)	in)	
2	Limited Applications	ĬĴ	E T e)	GR/ ed N	E A litrile	GRADE V (Neoprene)	E O	₩ B B B	MZ	E L
3	Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	ST / enat	AAD ite N	3AD 9opr	3AD oela	3ADI enate	ADE Joro	GRADE L (Silicone)
	Insufficient Data	9	GF)	DE (drog	GRADE A (White Nitrile)	25	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	(S)
				GRA (Hyc			_ E	ヹ	B	
	Chemical									
Methyl Isobut	•				Victaul			esenta		
Methyl Isocya		1	3	3	3	1	3			2
Methyl Isopro	· ·	2	3	3	3	3	3			3
Methyl Isoval						3	1			
Methyl Lactat		1	3	3	3	1	3			2
Methyl Merca	•	1					3			
Methyl Metha		3	3	3	3	3	3		3	3
Methyl Oleate		2	3	3	3	3	2			
Methyl Penta						3	1			
Methyl Pheny	· 					3	3			
Methyl Salicy		2	3	3	3	3	2			
-	ry Butyl Ether (MTBE)	3	3	3	3	3	3			
Methyl Valera						3	1			
Methylacrylic	Acid	2	3	3	3	2	3			3
Methylamine		1	3	3	3	1	3			2
Methylamyl A		1	3	3	3	1	3			2
Methylcyclop		3	3	3	3	3	1			3
Methylene Br						3	3			
Methylene Ch		3	3	3	3	3	3			3
Methylene Di		3	3	3	3	3	1			3
Methylene lo			3	3	3	3	3			2
Methyligobut		3				2				2
Methylisobuty		3	1	1		3	1			
Methylpyrrolic						3	1			
Methylpyrrolic		1	3	3	3	3	3			2
Methylsulfurio	MOIU	1	3	3			ئ 1			
MIL-A-6091			3	3	3	1				1

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Rating Code Key			I =						
1 Most Applications			GRADE ST / GRADE H (Hydrogenated Nitrile)	<u> </u>		ler)	GRADE M (Halogenated Butyl)	jį.	
2 Limited Applications	ΨΩ	GRADE T (Nitrile)	GR/ ed N	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	ы В В В	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
3 Restricted Applications	Grade E (EPDM)	Z E	ST /	3AD te N	3AD	(AD)	(AD)	ADE	3AD ilico
Insufficient Data	0.00	P	DE 9	P. S.	2	R Diagram	P g g	GR	GF (S
			HA			E.	(Ha		
Chemical			0						
MIL-C-4339	3	1	1	1	3	1			3
MIL-C-7024A	3	1	1	1	2	1		1	3
MIL-C-8188C	3	2	2	2	3	1		3	3
MIL-E-9500	1	1	1	1	1	1			1
MIL-F-16884	3	1	1	1	3	1			3
MIL-F-17111	3	- 1	1	1	2	1		1	3
MIL-F-25558 (RJ-1)	3	1	1	1	2	1		1	3
MIL-F-25656B (JP6)	3	1	1	1	3	1		1	3
MIL-F-5566	1	2	2	2	2	1		3	1
MIL-F-81912 (JP-9)	3	3	3	3	3	1			3
MIL-F-82522 (RJ-4)	3	2	2	2	3	1			3
MIL-G-10924B	3	1	1	1	3	1		1	3
MIL-G-15793	3	1	1	1	2	1		3	3
MIL-G-21568A MIL-G-25013D	1	1	1	1	3	1		1	3
MIL-G-25537A	3	1	1	1	3	1		1	3
MIL-G-25760A	3	3	3	3	3	1		3	3
MIL-G-3278	3	2	2	2	3	1			3
MIL-G-3545	3	1	1	1	2	1			3
MIL-G-4343B	3	2	2	2	3	1			3
MIL-G-5572	3	1	1	1	3	1			3
MIL-G-7118A	3	2	2	2	3	1		3	3
MIL-G-7187	3	1	1	1	1	1		1	3
MIL-G-7421A	3	2	2	2	3	1		3	3
MIL-G-7711A	3	- 1	1	1	3	1		1	3
MIL-H-13910B	1	1	1	1	1	1		3	3
MIL-H-19457B	2	3	3	3	3	1		3	3

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Gasket Chemical Services Guide

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	Rating Code Key			I_						
1	Most Applications			GRADE ST / GRADE H (Hydrogenated Nitrile)) (e)	. ~	ner)	GRADE M (Halogenated Butyl)	2 Irin)	
2	Limited Applications	Ĭ Ĭ	E)	ed GP	H H	E V	DE C	⊒ ed F	E M	DE L
3	Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	ST /	RAD lite	GRADE V (Neoprene)	GRADE O loroelaston	AAD enat	3AD	GRADE L (Silicone)
	Insufficient Data		٥	NDE drog	GRADE A (White Nitrile)	σž	GRADE O (Fluoroelastomer)	alogi	GRADE M2 (Epichlorohydrin)	000
	Chemical			GR.						
MIL-H-22251		1	2	2	2	2	1		3	3
MIL-H-27601	A	3	2	2	2	3	1		3	3
MIL-H-46170) -15°F/-26C to +400°F/204C	3	-1	1	1	2	1			3
MIL-H-46170	-20°F/-29C to +275°F/135C	3	- 1	1	1	2	1			3
MIL-H-46170	-55°F/-48C to +275°F/135C	3	- 1	1	1	2	1			3
MIL-H-46170	-65°F/-54C to +275°F/135C	3	- 1	1	1	2	1			3
MIL-H-5606 -	-65°F/-54C to +235°F/113C	3	- 1	1	1	3	1		2	3
MIL-H-5606 -	-65°F/-54C to +275°F/135C	3	- 1	1	1	3	1		2	3
MIL-H-6083C		3	- 1	1	1	1	1		1	3
MIL-H-7083A	1	1	1	1	1	3	3		3	2
MIL-H-8446E	3	3	3	3	3	1	1		3	3
MIL-J-5161F		3	3	3	3	3	1		1	3
Milk		1	1	1	1	1	1			1
MIL-L-15016		3	1	1	1	3	1			3
MIL-L-15017		3	1	1	1	3	1		1	3
MIL-L-17331	D	3	1	1	1	3	1		1	3
MIL-L-2104		3	1	1	1	2	1			3
MIL-L-21260		3	1	1	1	3	1		- 1	3
MIL-L-23699	A	3	3	3	3	3	1		3	3
MIL-L-25681	С	1	3	3	3	3	1		1	3
MIL-L-3150A	<u> </u>	3	1	1	1	3	1		1	3
MIL-L-6042C	;	3	1	1	1	3	1		1	3
MIL-L-6081		3	- 1	- 1	1	3	1		- 1	3
MIL-L-6085A		3	3	3	3	3	1		3	3
MIL-L-6387A		3	3	3	3	3	1		3	3
MIL-L-7808F		3	1	1	1	3	1		3	3
MIL-L-7870A		3	1	1	1	3	- 1		1	3

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Revision: GSG-100 6490 Rev.(AA)

Rating Code Key			I						
1 Most Applications			GRADE ST / GRADE H (Hydrogenated Nitrile)			ner)	GRADE M (Halogenated Butyl)	2 drin)	
2 Limited Applications	© ₩	E)	E G	Ä Ä Ä	E V	DE C	Щeg	E N	DE L
3 Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	ST /	JAF	GRADE V (Neoprene)	3A⊑ oela	3AD enat	AD Jor	GRADE L (Silicone)
Insufficient Data	00	ਾਲ ਂ	NDE drog	GRADE A (White Nitrile)	σž	GRADE O (Fluoroelastomer)	aloge	GRADE M2 (Epichlorohydrin)	000
Chemical			AR FE			=	E		
MIL-L-9000F	3	1	1	1	3	1		1	3
MIL-L-9236B	3	3	3	3	3	1		3	3
MIL-O-3503	3	1	1	1	3	1			3
MIL-P-27402	1	3	3	3	3				3
MIL-R-25576 (RP-1)	3	1	1	1	3	1		1	3
MIL-S-3136, Type I	3	1	1	1	3	1		1	3
MIL-S-3136, Type II	3	3	3	3	3	1		1	3
MIL-S-3136, Type III	3	3	3	3	3	1		1	3
MIL-S-3136, Type IV	3	1	1	1	3	1		1	2
MIL-S-3136, Type V	3	1	1	1	2	1		1	3
MIL-S-81087	1	1	1	1	1	1		1	3
MIL-T-5624, JP-4, JP-5	3	1	1	1	3	1		1	3
MIL-T-83133, JP-8	3	1	1	1	3	1			3
Mineral Oils	3	1	1	1	2	1		1	2
Mineral Spirits	3	1	1	1	3	1			3
Mixed Acids	1	3	3	3	1	3			2
MLO-7277 Hydr.	3	3	3	3	3	1			3
MLO-7577	3	3	3	3	3	1			3
MLO-8200 Hydr.	3	2	2	2	1	1		3	3
MLO-8515	3	2	2	2	1	1		3	3
Mobil 24dte	3	1	1	1	2	1			
Mobil Delvac 1100, 1110, 1120, 1130	3	1	1	1	2	1			
Mobil HF	3	1	1	1	2	1			
Mobil Nivac 20, 30	1	1	1	1	1	1			
Mobil SHC 500 Series	3	3	3	3	2	1			2
Mobil SHC 600 Series	3	3	3	3	2	1			3
Mobil Therm 600	3	1	1	1	2	1			

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1	Most Applications			GRADE ST / GRADE H (Hydrogenated Nitrile)			ler)	GRADE M (Halogenated Butyl)	į.	
2	Limited Applications	ш̂≨	 ⊢ ⊕	SAP/	E A litrile	GRADE V (Neoprene)	o itom	ΣœΩ	hydr	E L
3	Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	ST /	APD te N	3ADI	ADI	ADE	ADE	GRADE L (Silicone)
	Insufficient Data	0.00	P	DE 9	GRADE A (White Nitrile)	25	GRADE O (Fluoroelastomer)	P g g	GRADE M2 (Epichlorohydrin)	GF (S
				HAN				EH		
	Chemical			0						
Mobil Veloci	te c	3	1	1	1	2	- 1			
Mobilgas W	A200 ATF	3	- 1	1	1	2	1			
Mobilgear 60	00 Series	3	3	3	3	1	1			1
Mobilgear S	HC ISO Series	3	3	3	3	2	1			1
Mobilgrease	HP	3	2	2	2	2	1			2
Mobilgrease	HTS	3	2	2	2	2	1			2
Mobilgrease	SM	3	2	2	2	2	- 1			2
Mobilith AW	Series	3	2	2	2	2	1			2
Mobilith SHO	C Series	3	2	2	2	3	1			2
Mobiljet II Lu	ubricant						1			
Mobilmistlub	ne Series	3	3	3	3	- 1	1			1
Mobiloil SAE	E 20	3	1	1	1	2	1			
Mobilux		3	1	1	1	2	1			
Molybdenum	n Disulfide Grease	3	- 1	1	1	3	3			
Molybdenum	n Oxide	1	3	3	3	1	3			2
Molybdenum	n Trioxide	1	3	3	3	1	3			2
Molybdic Ac	id	1	3	3	3	1	3			2
Monobromo	benzene	3	3	3	3	3	3		3	3
Monobromo	toluene					3	- 1			
Monochloroa	acetic Acid	1	3	3	3	- 1	3			2
Monochlorol	penzene	3	3	3	3	3	3		3	3
Monochlorol	outene					3	- 1			
Monoethano	plamine (MEA)	2	3	3	3	3	3		3	2
Monoethyl A	mine	1	3	3	3	- 1	3		3	2
Monoisopro	pylamine	1	3	3	3	- 1	3			2
Monomethyl	Aniline	3	3	3	3	3	3			2
Monomethyl	Ether (Methyl Ether)	3	- 1	1	- 1	2	3			

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1 2	Most Applications Limited Applications	Ш (Ñ	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
3	Restricted Applications	Grade E (EPDM)	Nitri	ST / enat	AAD ite N	3AD	3AD oela	3AD	ADE	AAD ilico
	Insufficient Data	0.5	9	DE (<u>a</u> §	٦	Roul	aloga G	GH Sich	(S)
				E Y			L	🖺		
	Chemical									
Monomethyl	Hydrazine	1	2	2	2	2	3			3
Monomethyla	amine (MMA)	1	3	3	3	1				2
Mononitrotolu	uene	1	3	3	3	1	3			2
Mononitrotolu	uene & Dinitrotoluene (40/60 Mixture)	1	3	3	3	3	3			3
Monovinyl Ad	cetylene	1	1	1	1	2	1			2
Mopar Brake	Fluid	1	3	3	3	2	3			3
Morpholine						3	2			
Motor Oils		3	1	1	1	2	1			2
Mustard Gas	3	1				1	1			1
Myristic Acid						3	1			
Naphtha		3	2	2	2	3	- 1		1	3
Naphtha, 160	0°F/71°C	3	2	2	2	3	- 1		2	3
Naphthalene			Coi	ntact a	Victau	lic Sale	s Repr	esenta	ıtive	
Naphthalene	Chloride					3	- 1			
Naphthalene	Sulfonic Acid					3	- 1			
Naphthalenic	c Acid	3	2	2	2	3	- 1			3
Naphthalonic	c Acid	3				3	- 1			3
Naphthenic A	Acid	3	2	2	2	3	- 1			3
Natural Gas		3	- 1	1	1	1	1		1	3
Neatsfoot Oil	I	2	- 1	1	1	3	- 1			2
Neon		1	1	1	1	1	1			1
Neville Acid		2	3	3	3	3	1			3
Nickel Acetat	te	1	2	2	2	2	3			3
Nickel Acetat	te to 10%, 100°F/38°C	2	2	2	2	2	3			3
Nickel Ammo	onium Sulfate	1	3	3	3	- 1	3			2
Nickel Chlori	de	1	1	-1	- 1	2	- 1			1
Nickel Cyanio	de	1	3	3	3	1	3			2

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1 2	Most Applications Limited Applications	шę	L (6)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	e)
3	Restricted Applications	Grade E (EPDM)	GRADE T (Nitrile)	T/C	ADE e Ni	ADE	ADE	ADE nate	S S S S S S S S S S S S S S S S S S S	GRADE L (Silicone)
		P. P	AR S	E S oge	Apit Mit	GR.	GR	GR,	SR/	GR (Sil
	Insufficient Data			물				Hal	ਜ਼	
	Chemical			g =						
Nickel Nitrate)	1	3	3	3	1	3			2
Nickel Salts		1	1	1	1	2	1			1
Nickel Sulfate	e	1	1	1	1	1	1			1
Nicotinamide	(Niacinamide)					3	1			
Nicotinamide	Hydrochloride	1	3	3	3	1	3			2
Nicotine						3	3			
Nicotine Sulf	ate	1	3	3	3	1	3			2
Niter Cake		1	1	1	1	1	1			1
Nitric Acid 3	Molar to 158°F/70C	2	3	3	3	3	3			3
Nitric Acid Co	oncentrated to 158°F/70C	3	3	3	3	3	3			3
Nitric Acid to	10%, 75°F/24°C	2	3	3	3		1		3	2
Nitric Acid, 1	0-50%, 75°F/24°C	3	3	3	3	3	1			3
Nitric Acid, 5	0-100%, 75°F/24°C	3	3	3	3	3	3			3
Nitric Acid, R	led Fuming	3	3	3	3	3	3		3	3
Nitric Acid, W	Vhite Fuming	3	3	3	3	3	3		3	3
Nitroaniline		1	3	3	3	1	3			2
Nitrobenzene	9	1	3	3	3	3	2		3	3
Nitrobenzoic	Acid	1	3	3	3	1	3			2
Nitrocellulose	Э	1	3	3	3	1	3			2
Nitrochlorobe	enzene	1	2	2	2	1	3			2
Nitrochlorofo	rm	1	3	3	3	1	3			2
Nitrodiethyla	niline	1	3	3	3	1	3			2
Nitrodipheny	l Ether									
Nitroethane		2	3	3	3	3	3			3
Nitrofluorobe	nzene	1	3	3	3	1	3			2
Nitrogen Gas	3	1	1	1	1	1	1		1	1
Nitrogen Oxid	des	1	3	3	3	1	3			2

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Rating Code Key			_						
1 Most Applications 2 Limited Applications 3 Restricted Applications Insufficient Data Chemical	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
Nitrogen Tetroxide (N2O4)	3	3	3	3	3	3			3
Nitrogen Trifluoride									
Nitroglycerine	1	3	3	3	1	3			2
Nitrogylcerol	1	3	3	3	1	3			2
Nitroisopropylbenzene	1	3	3	3	1	3			2
Nitromethane	2	3	3	3	3	3			3
Nitrophenol	1	3	3	3	1	3			2
Nitropropane	2	3	3	3	3	3			3
Nitrosyl Chloride	3	3	3	3					
Nitrosylsulfuric Acid									
Nitrothiophene	1	3	3	3	1	3			2
Nitrotoluene	1	3	3	3	1	3			2
Nitrous Acid	1	3	3	3	1	3			2
Nitrous Oxide	1	1	1	1	2	3			- 1
Nonane	3	1	1	1	2	1			2
Noryl GE Phenolic	1	1	1	1					
Nyvac FR200 Mobil	1	1	1	1	2	1			
Octachloro Toluene	3	3	3	3	3	1			3
Octadecane	3	1	1	1	2	1			3
Octanal (n-Octanaldehyde)	3	- 1	1	1	2	3			2
Octane or n-Octane	3	2	2	2	3	1			3
Octyl Acetate	1	3	3	3	- 1	3			2
Octyl Alcohol	3	2	2	2	2	1			2
Octyl Chloride	3	- 1	1	1	2	2			2
Octyl Phthalate	3	3	3	3	3	3		2	3
Oil, Crude	3	1	1	1	2	1			3
Oil, Crude with Aromatics	3	3	3	3	3	1			3

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Rating Code Key 1 Most Applications 2 Limited Applications 3 Restricted Applications Insufficient Data Chemical	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
Oil, Motor	3	1	1	1	2	1			2
Oil, Sour Crude	3	2	2	2	3	1			3
Olefins	3	1	1	1	3	1			3
Oleic Acid	3	3	3	3	3	2		1	3
Oleum (Fuming Sulfuric Acid)	3	3	3	3	3	3		3	3
Oleum Spirits	3	2	2	2	3	1			3
Oleyl Alcohol Olive Oil	2	1	1	1	2	1		1	3
	3	2	2	2				3	3
Orthor-Chloro Ethyl Benzene	3	3	3	3	3	2			3
Ortho-Chloroaniline	1	3	3	3	1	3			2
Ortho-Chlorophenol	1	3	3	3	1	3			2
Ortho-Cresol	1	3	3	3	1	3			2
Ortho-Dichlorobenzene	3	3	3	3	3	1			3
Ortho-Nitrotoluene	1	3	3	3	1	3			2
OS45 Type III Silicate Ester	3	2	2	2	1	1			3
OS45 Type IV / OS45-1	3	2	2	2	1	1			3
OS70	3	2	2	2	1	1			3
Oxalic Acid	1	2	2	2	2	1		3	3
Oxygen, 70F/21C to 200F/93C	2	2	2	2	2	2		3	2
Oxygen, Cold to 70F/21C	2	2	2	2	2	2		2	2
Oxygen, 200F/93C to 300F/149C	3	3	3	3	3	2		3	2
Oxygen, 300F/149C to 400F/204C	3	3	3	3	3	3		3	2
Oxygen, Liquid	3	3	3	3	3	3			3
Ozonated Deionized Water	1	3	3	3	1	3			2
Ozone to 100ppm	1	3	3	3	2	1		1	1
Ozone to 200ppm	3	3	3	3	3	- 1		3	- 1

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Revision: GSG-100 6490 Rev.(AA)

	Rating Code Key			т.						
1 2 3	Most Applications Limited Applications Restricted Applications Insufficient Data	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
	Chemical			GRA (Hyc			Ш.	(H	(E	
Ozone to 300	 Эррт	3	3	3	3	3	3		3	1
Paint Thinner	r, Duco	3	3	3	3	3	2			3
Palmitic Acid		2	1	1	1	2	1		2	3
P-Aminobenz	zoic Acid	2	3	3	3	3	3			
Para-Aminob	penzoic Acid	1	3	3	3	1	3			2
Para-Aminos	salicylic Acid	1	3	3	3	1	3			2
Para-Chlorop	phenol	1	3	3	3	1	3			2
Paracymene		3	3	3	3	3	1			3
Para-Dichloro	obenzene	3	3	3	3	3	1			3
Paraffins		3	- 1	- 1	1	2	1			2
Para-Formalo	dehyde	1	3	3	3	1	3			2
Paraldehyde		1	3	3	3	- 1	3			2
Par-al-Ketone	е	3	3	3	3	3	3			3
Para-Nitroani	iline	1	3	3	3	- 1	3			2
Para-Nitrobe	nzoic Acid	1	3	3	3	1	3			2
Para-Nitroph	enol	1	3	3	3	1	3			2
Parathion						3	1			
Para-Toluene	e Sulfonic Acid	1	3	3	3	- 1	3			2
Parker O Lub	ре	3	1	1	1	1	1			2
Peanut Oil		3	1	1	1	3	1		1	1
Pectin (Liquo	or)	3	1	1	1	3	1			1
Pelagonic Ac	cid		1	1	1		3			
Penicillin (Liq	quid)					3	1			2
Pentachloroe	ethane		3	3	3	3	3			
Pentachlorop	phenol	1	3	3	3	1	3			2
Pentaerythrit	col	1	3	3	3	1	3			2
Pentaerythrit	ol Tetranitrate	1	3	3	3	- 1	3			2

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Insufficient Data	(EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)			
Chemical			0=									
Pentane or n-Pentane	3	1	1	1	1	1			3			
Pentane, 2 Methyl	3	1	1	1	2	1			3			
Pentane, 2-4 dimethyl	3	1	1	1	2	1			3			
Pentane, 3-Methyl	3	1	1	1	2	1			3			
Pentoxone						3						
Pentyl Pentanoate	3	1	1	1	2	1			2			
Peracetic Acid	1	3	3	3	1	3			2			
Perchloric Acid	Contact a Victaulic Sales Representative											
Perchloric Acid - 2N		Con	itact a	Victaul	ic Sale	s Repr	esenta	tive				
Perchloroethylene	3	2	2	2	3	1		2	3			
Petrolatum	3	1	1	1	2	1			3			
Petrolatum Ether	3	1	1	1	2	3			2			
Phenol (Carbolic Acid)	3	3	3	3	3	1			3			
Phenol Sulfonic Acid	1	3	3	3	1	1			3			
Phenol, 70% / 30% H2O	3	3	3	3	3	3			3			
Phenol, 85% / 15% H2O	3	3	3	3	3	3			3			
Phenolic Sulfonate	1	3	3	3	1	3			2			
Phenolsulfonic Acid	1	3	3	3	1	3			2			
Phenylacetamide					3	1						
Phenylacetate	1	3	3	3	1	3			2			
Phenylacetic Acid	1	3	3	3	1	3			2			
Phenylbenzene	3	3	3	3	3	1			3			
Phenylethyl Alcohol					3	3						
Phenylethyl Ether	3	3	3	3	3	3			3			
Phenylethyl Malonic Ester					3	1						
Phenylglycerine	1	3	3	3	1	3			2			
Phenylhydrazine 2	2	3	3	3	3	2						

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			1	ı	1	I	I	1	ı	
	Rating Code Key			I 🙃				_		
1	Most Applications			ADE litrik	<u> </u>		Jer)	l (lá	j. j	
2	Limited Applications	Ψ⊋	— (e)	GR/ ed N	E A Jitrije	E V	E O	ω M M M M	hydi	ne)
3	Restricted Applications	Grade E (EPDM)	GRADE '	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
	Insufficient Data	9	٦	DE (<u> </u>	ا الله	ig on	aloga G	Epig.	<u>@</u> &)
				E A A			<u> </u>	🖺		
	Chemical									
Phenylhydra	zine Hydrochloride	1	3	3	3	1	3			2
Phenylmercu	uric Acetate	1	3	3	3	1	3			2
Phorone (Dii	sopropylidene Acetone)	3	3	3	3	3	3			3
Phosgene			Coi	ntact a	Victau	lic Sale	s Repr	esenta	tive	
Phosphate E	Ester	1	3	3	3	3	3		3	3
Phosphoric A	Acid 3 Molar to 158°F/70C	1	- 1	- 1	- 1	2	- 1			2
Phosphoric A	Acid 85% to 200°F/93C	3	3	3	3	3	3			3
Phosphoric A	Acid Concentrated Room Temp	1	2	2	2	2	1			3
Phosphoric A	Acid Concentrated to 158°F/70C	1	3	3	3	3	1			3
Phosphoric A	Acid, 20%	1	2	2	2	2	1			2
Phosphoric A	Acid, 45%	1	3	3	3	2	- 1			3
Phosphorus	Oxychloride	3	3	3	3	3	1			
Phosphorus	Trichloride	1	3	3	3	3	1			
Phosphorus	Trichloride Acid	1	3	3	3	3	1			
Photographic	c Solutions	2	2	2	2	2	1			1
Phthalic Acid		1	3	3	3	1	3			2
Phthalic Anh	ydride	1	3	3	3	1	3			2
Pickling Solu	ution	3	3	3	3	3	2		3	3
Picric Acid (a	aq)	2	2	2	2	3	1			3
Picric Acid M	1 olten	2	2	2	2	2	1			3
Pine Oil		3	- 1	1	- 1	3	1		2	3
Pine Tar		3	1	1	1	2	1			2
Pinene		3	2	2	2	3	1			3
Piperazine		3	3	3	3	3	3			3
Piperidine		3	3	3	3	3	3			3
Plating Solut	tions (gold, brass, cadmium, copper, lead, silver, nickel, tin, zinc)	1	- 1	- 1	- 1		- 1			
Plating Solut	tions Chrome	1	3	3	3	3	1			3

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Plating Solutions Others	1	1	1	1	3	1			3
Pneumatic Service	1	1	1	1	1	1			3
Polyethylene Glycol	1	2	2	2	2	3			
Polyglycerol	1	3	3	3	1	3			2
Polyglycol	1	3	3	3	1	3			2
Polyvinyl Acetate Emulsion	1	1	1	1	2	3			3
Polyvinyl Alcohol	1	1	1	1		1			
Potassium Acetate	1	2	2	2	2	3			3
Potassium Acid Sulfate	1	3	3	3	1	3			2
Potassium Alum	1	3	3	3	1	3			2
Potassium Aluminum Sulfate	1	3	3	3	1	3			2
Potassium Antimonate	1	3	3	3	1	3			2
Potassium Bicarbonate	1	3	3	3	1	3			2
Potassium Bichromate	1	3	3	3	1	3			2
Potassium Bifluoride	1	3	3	3	1	3			2
Potassium Bisulfate	1	3	3	3	1	3			2
Potassium Bisulfite	1	3	3	3	1	3			2
Potassium Bitartrate	1	3	3	3	1	3			2
Potassium Borate	1	1	1	1	1	1			
Potassium Bromate	1	2	2	2	2	1			
Potassium Bromide	1	3	3	3	1	3			2
Potassium Carbonate	1	3	3	3	1	3			2
Potassium Chlorate	1	3	3	3	1	3			2
Potassium Chloride	1	1	- 1	- 1	1	1		1	1
Potassium Chromate	1	3	3	3	1	3			2
Potassium Citrate	1	3	3	3	1	3			2
Potassium Cupro Cyanide	1	1	1	1	1	1			1

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Potassium Cyanate	1	3	3	3	1	3			2
Potassium Cyanide	1	1	1	1	1	1		1	1
Potassium Dichromate	1	- 1	- 1	1	1	1			- 1
Potassium Diphosphate	1	3	3	3	1	3			2
Potassium Ferricyanide	1	3	3	3	1	3			2
Potassium Ferrocyanide	1	3	3	3	1	1			
Potassium Fluoride	1	3	3	3	1	3			2
Potassium Glucocyanate	1	3	3	3	1	3			2
Potassium Hydroxide	1	2	2	2	2	3		1	3
Potassium Hypochlorite	1	3	3	3	1	3			2
Potassium Iodate	1	3	3	3	1	3			2
Potassium Iodide	1	3	3	3	1	3			2
Potassium Metabisulfate	1	3	3	3	1	3			2
Potassium Metachromate	1	3	3	3	1	3			2
Potassium Monochromate	1	3	3	3	1	3			2
Potassium Nitrate	1	- 1	- 1	1	1	1		1	- 1
Potassium Nitrite	1	3	3	3	1	3			2
Potassium Oxalate	1	3	3	3	1	3			2
Potassium Perborate	1	2	2	2	1	2			
Potassium Perchlorate	1	3	3	3	1	3			2
Potassium Perfluoro Acetate	1	2	2	2	3	3			
Potassium Permanganate	1	3	3	3	1	3			2
Potassium Persulfate	1	3	3	3	- 1	3			2
Potassium Phosphate (Acid)	1	3	3	3	- 1	3			2
Potassium Phosphate (Alkaline)	1	3	3	3	1	3			2
Potassium Phosphate (Di/Tri Basic)	1	3	3	3	1	3			2
Potassium Pyrosulfate	1	3	3	3	1	3			2

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3	Restricted Applications	rade	₩ Eij	ST /	AAD ite N	3AD sopr	3AD sela	3AD	ADI	AAD ilico
	Insufficient Data	0 =	9	DE (§ §	22	P N	aloga	Riginal High	G. (S
				EX.			"	<u>x</u>		
	Chemical			0 -						
Potassium S	Salts	1	1	1	1	1	1			1
Potassium S	Silicate	1	1	1	1	1	1			1
Potassium S	Sodium Tartrate	1	3	3	3	1	3			2
Potassium S	Stannate	1	3	3	3	1	3			2
Potassium S	Stearate	1	3	3	3	1	3			2
Potassium S	Sulfate	1	1	1	1	1	1		1	1
Potassium S	Sulfide	1	3	3	3	1	3			2
Potassium S	Sulfite	1	1	1	1	1	1			1
Potassium T	artrate	1	3	3	3	1	3			2
Potassium T	hiocyanate	1	3	3	3	1	3			2
Potassium T	hiosulfate	1	3	3	3	1	3			2
Potassium T	riphosphate	1	3	3	3	1	3			2
Prestone An	tifreeze	1	1	1	1	1	2			1
PRL-High Te	emp. Hydr. Oil	3	2	2	2	2	1			2
Producer Ga	as	3	1	1	1	2	1			2
Propane Gas	s	3	1	1	1	2	1		1	3
Propargyl Ale	cohol	1	1	1	1	1	1			-
Propionaldel	hyde	1	3	3	3	1	3			2
Propionic Ac	sid	1	3	3	3	1	3			2
Propionitrile		3	1	1	1	2	3			
Propyl Aceta	ate	2	3	3	3	3	3		3	3
Propyl Aceto	one or n-Propyl Acetone	1	3	3	3	3	3			3
Propyl Alcoh	nol (Propanol)	1	1	1	1	1	1		1	1
Propyl Nitrat	e	2	3	3	3	3	3			3
Propyl Propi	onate	1	3	3	3	- 1	3			2
Propylamine		1	3	3	3	1	3			2
Propylbenze	ne					3	- 1			

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	Restricted Applications Insufficient Data	Gra	(EF	GRA (Ni	3RADE ST (Hydrogen	GRA (White	GRA (Neo	GRA (Fluoroe	GRA (Halogen	GRAI (Epichlo	GR/ (Sili
	Chemical										
Propylene			3	3	3	3	3	1			3
Propylene Cl			3	3	3	3	3	1			3
Propylene Ch							3	1			
Propylene Di							3	1			
Propylene Gl	•		1	1	1	1	1	1			1
	lycol 30% + tap water @250F/121C		1								
	lycol 50% + tap water @250F/121C		1								
Propylene Im							3	1			
Propylene Ox	xide		2	3	3	3	3	3			3
Pydraul 5 0			1	3	3		3	1		. 3	1
Pydraul F - 9 Pydraul, 10E			1	3	itact a	Victaul 3	ic Sale	s Hepr 1	esenta 	tive 3	3
Pydraul, 115			1	3	3	3	3	1		3	3
	C, 312C, 540C, A200		3	3	3	3	3	1		3	3
	LT 30E, 50E, 65E		1	3	3	3	3	1		3	1
Pyranol 1467			3	1	1	1	3				1
Pyranol 1476			3	1	1	1	3	1			
Pyranol Tran			3	1	1	1	2	1		3	3
Pyridine			2	3	3	3	3	3		3	3
Pyridine Oil		2	2	3	3	3	3	3			3
Pyridine Sulf	ate		1	3	3	3	1	3			2
Pyridine Sulf	onic Acid		1	3	3	3	1	3			2
Pyrogallol (P	yrogallic Acid)		3	2	2	2	3	1			
Pyrogard 42,	43, 55		1	3	3	3	3	3			3
Pyrogard 53,	Mobil Phosphate Ester		1	3	3	3	3	3			3
Pyrogard D,	Mobil Water-in-Oil Emulsion		3	1	1	1	2	3			3
Pyroligneous	Acid	2	2	3	3	3	2	3			

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3	Restricted Applications	Grade E (EPDM)	ĕ.	ST /	AD te N	AD	ADI	ADI	ADE	M AD
	Insufficient Data	ا ق	125	DE 9	P. W.	R S	E S	Gge	G.R.	9.00 P
	modificient Data			HAY Hyd			<u> </u>	(Ha	Ш.	
	Chemical			9						
Pyrolube		2	3	3	3	3	1			2
Pyrosulfuric	Acid	1	3	3	3	1	3			2
Pyrosulfuryl	Chloride	3	2	2	2	3	1			
Pyrrole		3	3	3	3	3	3			2
Pyruvic Acid		1	3	3	3	1	3			2
Quinidine		3	2	2	2	3	1			
Quinine		3	2	2	2	3	1			
Quinine Bisu	ılfate	1	3	3	3	1	3			2
Quinine Hyd	rochloride	1	3	3	3	1	3			2
Quinine Sulf	ate	1	3	3	3	1	3			2
Quinine Tart	rate	1	3	3	3	1	3			2
Quinizarin		3	2	2	2	3	1			
Quinoline		3	2	2	2	3	1			
Quinone		3	2	2	2	3	3			
Radiation (G	amma, 1.0 E+07 Rads)	2	3	3	3		3			2
Raffinate		3	2	2	2	3	1			3
Rapeseed O	il	1	2	2	2	2	1		1	3
Red Line 10	0 Oil	3	1	1	1	2	1			3
Red Oil (MIL	-H-5606)	3	1	1	1	2	1			3
Resorcinol		1	3	3	3	1	3			2
Riboflavin		3	2	2	2	3	- 1			
Ricinoleic Ad	cid	3	2	2	2	3	1			
RJ-1 (MIL-F-	-25558)	3	1	1	1	2	1			3
Rosin		3	2	2	2	3	1			1
RP-1 (MIL-R	1-25576)	3	- 1	1	1	2	1			3
Saccharin S	olution	1	3	3	3	1	3			2
Sal Ammonia	ac	1	1	1	1	1	1			2



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Salicylic Acid	1	2	2	2	1	1			
Santo Safe 300	3	3	3	3	3	1			1
Sea Water, salinity ~ 3.5%	1	1	1	1		3			1
Sebacic Acid	1	3	3	3	1	3			2
Selenic Acid	1	3	3	3	1	3			2
Selenous Acid	- 1	3	3	3	1	3			2
Sewage	2	1	1	1	2	1			1
SF 1147 GE Silicone Fluid	3	2	2	2		1			3
SF 1154 GE Silicone Fluid	1	2	2	2	1	1			3
SF96 GE SIlicone Fluid	1	2	2	2	1	1			3
Shell 3XF Mine Fluid (Fire resist hydr.)	3	1	1	1	2	1			3
Shell Alvania Grease #2	3	1	1	1	2	1			2
Shell Carnea 19 and 29	3	1	1	1	3	1			
Shell Diala	3	1	1	1	2	1			3
Shell Irus 905	3	1	1	1	2	1			3
Shell Lo Hydrax 27 and 29	3	1	1	1	2	1			3
Shell Macome 72	3	1	1	1	2	1			3
Shell Tellus #32 Pet. Base	3	1	1	1	2	1			3
Shell Tellus #68	3	1	1	1	2	1	-		3
Shell Tellus 27 (Petroleum Base)	3	1	1	1	2	1	1		3
Shell Tellus 33	3	1	1	1	2	1	ł		3
Shell UMF (5% Aromatic)	3	1	1	1	2	1	ł		3
Shellac	1	3	3	3	1	3			2
Silicate Esters	3	2	2	2	1	1			3
Silicic Acid	1	1	1	1	1	1			
Silicon Fluoride	1					1			
Silicon Tetrachloride	3	3	3	3		3			3

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Silicone Greases	1	1	1	1	1	1		1	3
Silicone Oils	1	1	1	1	1	1		1	3
Silver Bromide	1	3	3	3	- 1	3			2
Silver Chloride	1	3	3	3	1	3			2
Silver Cyanide	1	3	3	3	1	3			2
Silver Nitrate	1	2	2	2	- 1	1			1
Silver Sulfate	1	3	3	3	1	3			2
Sinclair Opaline CX-EP Lube	3	1	1	1	2	1			3
Skelly, Solvent B, C, E	3	1	1	1	3	1			
Skydrol 500 B4	1	3	3	3	3	3		3	3
Skydrol 7000	1	3	3	3	3	2		3	3
Skydrol LD-4	1	3	3	3	3	3			3
Soap Solutions	1	1	1	1	2	1		1	1
Socony Mobile Type A	3	1	1	1	2	2			3
Socony Vacuum AMV AC781 (Grease)	3	1	1	1	2	2			3
Socony Vacuum PD959B	3	1	1	1	2	1			3
Soda Ash	1	1	1	1	1	1		1	1
Sodium Acetate	1	2	2	2	2	3			3
Sodium Acid Bisulfate	1	3	3	3	- 1	3			2
Sodium Acid Fluoride	1	3	3	3	- 1	3			2
Sodium Aluminate	1	3	3	3	- 1	3			2
Sodium Aluminate Sulfate	1	3	3	3	- 1	3			2
Sodium Anthraquinone Disulfate	1	3	3	3	- 1	3			2
Sodium Antimonate	1	3	3	3	- 1	3			2
Sodium Arsenate	1	3	3	3	- 1	3			2
Sodium Arsenite	1	3	3	3	- 1	3			2
Sodium Benzoate	1	3	3	3	1	3			2

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Sodium Bicarbonate (Baking Soda)	1	1	1	1	1	1		1	1
Sodium Bichromate	1	3	3	3	1	3			2
Sodium Bifluoride	1	3	3	3	1	3			2
Sodium Bisulfate or Bisulfite	1	1	- 1	- 1	1	1		1	1
Sodium Bisulfide	1	3	3	3	1	3			2
Sodium Bisulfite	1	1	- 1	- 1	1	1		1	1
Sodium Bitartrate	1	3	3	3	1	3			2
Sodium Borate	1	1	1	1	1	1		1	1
Sodium Bromate	1	3	3	3	1	3			2
Sodium Bromide	1	3	3	3	1	3			2
Sodium Carbonate (Soda Ash)	1	1	1	1	1	1		1	1
Sodium Chlorate	1	3	3	3	1	3			2
Sodium Chloride	1	1	1	1	1	1		1	1
Sodium Chlorite	1	3	3	3	1	3			2
Sodium Chloroacetate	1	3	3	3	1	3			2
Sodium Chromate	1	3	3	3	- 1	3			2
Sodium Citrate	1	3	3	3	- 1	3			2
Sodium Cyanamide	1	3	3	3	- 1	3			2
Sodium Cyanate	1	3	3	3	- 1	3			2
Sodium Cyanide	1	1	1	1	1	1		1	1
Sodium Diacetate	1	3	3	3	1	3			2
Sodium Diphenyl Sulfonate	1	3	3	3	1	3			2
Sodium Diphosphate	1	3	3	3	1	3			2
Sodium Disilicate	1	3	3	3	1	3			2
Sodium Ethylate	1	3	3	3	1	3			2
Sodium Ferricyanide	1	3	3	3	1	3			2
Sodium Ferrocyanide	1	3	3	3	- 1	3			2

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Sodium Fluoride	1	3	3	3	1	3			2
Sodium Fluorosilicate	1	3	3	3	1	3			2
Sodium Glutamate	1	3	3	3	1	3			2
Sodium Hydride	1								
Sodium Hydro Sulfide	1	3	3	3	1	3			
Sodium Hydrogen Sulfate	1	3	3	3	1	3			2
Sodium Hydrosulfide	1	3	3	3	1	3			2
Sodium Hydrosulfite	1	3	3	3	1	3			2
Sodium Hydroxide 3 Molar	1	2	2	2	2	2		2	
Sodium Hydroxide, 10%	1	- 1	1	1	1	2		2	1
Sodium Hydroxide, 30%	2	2	2	2	2	3		3	2
Sodium Hydroxide, 50%	2	2	2	2	3	3		3	3
Sodium Hypochlorite	3	3	3	3	3	2		1	3
Sodium Hypochlorite, 20%	1	3	3	3	3	2		1	3
Sodium Hypophosphate	1	3	3	3	1	3			2
Sodium Hypophosphite	1	3	3	3	1	3			2
Sodium Hyposulfite	1	3	3	3	1	3			2
Sodium Iodide	1	3	3	3	1	2			2
Sodium Lactate	1	3	3	3	1	3			2
Sodium Metaphosphate	1	1	1	1	1	2			
Sodium Metasilicate	1	3	3	3	1	2			2
Sodium Methylate	1	3	3	3	1	3			2
Sodium Monophosphate	1	3	3	3	1	1			2
Sodium Nitrate	1	2	2	2	2	2		1	3
Sodium Nitrite	1	2	2	2	2	1			2
Sodium Oleate	1	3	3	3	1	3			2
Sodium Orthosilicate	1	3	3	3	1	3			2

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3 Restricted Applications Insufficient Data Chemical	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
Sodium Oxalate	1	3	3	3	1	1			2
Sodium Perborate	1	2	2	2	2	1			2
Sodium Percarbonate	1	3	3	3	1	3			2
Sodium Perchlorate	1	3	3	3	1	3			2
Sodium Peroxide	1	2	2	2	2	2		3	3
Sodium Persulfate	1	3	3	3	1	3			2
Sodium Phenolate	1	3	3	3	1	3			2
Sodium Phenoxide	1	3	3	3	1	3			2
Sodium Phosphate, Dibasic	1	1	1	1	2	1		3	3
Sodium Phosphate, Monobasic	1	1	1	1	2	1		3	3
Sodium Phosphate, Tribasic	1	1	1	1	2	1		3	- 1
Sodium Plumbite	1	3	3	3	- 1	2		3	2
Sodium Pyrophosphate	1	3	3	3	1	3			2
Sodium Resinate	1	3	3	3	1	3			2
Sodium Salicylate	1	3	3	3	1	3			2
Sodium Salts	1	1	1	1	2	1			1
Sodium Sesquisilicate	1					3			
Sodium Silicate	1	1	1	- 1	- 1	1			
Sodium Silicofluoride	1								
Sodium Stannate	1	3	3	3	1	3			2
Sodium Sulfate	1	1	1	1	1	1		1	1
Sodium Sulfide	1	1	1	1	1	1			1
Sodium Sulfite	1	1	1	1	1	1			1
Sodium Sulfocyanide	1	3	3	3	1	3			2
Sodium Tartrate	1	3	3	3	1	3			2
Sodium Tetraborate	1	3	3	3	1	1			2
Sodium Tetraphosphate	1	3	3	3	- 1	3			2

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3	Restricted Applications	ade	(EPDM)	GRADE T (Nitrile)	T / C nate	ADE e Ni	ADE opre	ADE elas	ADE nate	NDE orof	GRADE L (Silicone)
		<u>ق</u>	5Ш	GR (N	E S	GR	GR (Nec	GR, loro	GR, oger	3R/	GR Sil
	Insufficient Data				3AD Iydr	0		(FIL	Halo	(Ep	
	Chemical				GF (+)						
Sodium Tetra	asulfide		1	3	3	3	1	3		-	2
Sodium Thio	arsenate		1	3	3	3	1	3			2
Sodium Thio	cyanate		1	3	3	3	1	1		1	2
Sodium Thio	sulfate		1	2	2	2	1	1		1	1
Sodium Trich	nloroacetate		1	3	3	3	1	3		1	2
Sodium Triph	nosphate		1	3	3	3	1	3		1	3
Solvasol #1			3	1	1	1	2	2			3
Solvasol #2			3	1	1	1	2	2	-	1	3
Solvasol #3			3	1	1	1	2	2		1	3
Solvasol #73	}		3	2	2	2	2	1		1	3
Solvasol #74				Cor	ntact a	Victaul	ic Sale	s Repr	esenta	tive	
Sorbitol			1	3	3	3	1	3		ł	2
Sour Crude (Oil		3	3	3	3	3	2			3
Sour Natural	Gas		3	3	3	3	3	2		-	3
Soya Oil			3	1	1	1	1	1			3
Soybean Oil			3	1	1	1	3	1		1	1
Spindle Oil			3	1	1	1	2	1		1	1
Spry			2	1	1	1	2	1		1	1
SR-10 Fuel			3	1	1	1	3	1			3
SR-6 Fuel			3	2	2	2	3	1		-	3
Standard Oil	Mobilube GX90-EP Lube		3	1	1	1	2	1		-	3
Stannic Amm	nonium Chloride		1	3	3	3	1	3		-	2
Stannic Chlo	ride		1	1	1	1	3	1		-	2
Stannic Tetra	achloride		1	3	3	3	1	3			2
Stannous Bis	sulfate		1	3	3	3	1	3			2
Stannous Bro	omide		1	3	3	3	1	3			2
Stannous Ch	nloride		1	1	1	1	1	- 1			2

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Stannous Fluoride	1	3	3	3	1	1			2
Stannous Sulfate	1	3	3	3	1	3			2
Starch	1	- 1	1	1	1	1			- 1
Stauffer 7700	3	2	2	2	3	1			3
Steam Above 300°F/149C	3	3	3	3	3	3		3	3
Steam Below 300°F/149C	2	3	3	3	3	3		3	3
Stearic Acid	2	2	2	2	2	1		3	2
Stoddard Solvent	3	- 1	1	1	3	1		1	3
Strontium Acetate	1	3	3	3	1	3			2
Strontium Carbonate	1	3	3	3	1	3			2
Strontium Chloride	1	3	3	3	1	3			2
Strontium Hydroxide	1	3	3	3	1	3			2
Strontium Nitrate	1	3	3	3	- 1	3			2
Styrene Monomer	3	3	3	3	3	3			3
Styrene Polymer	3	3	3	3	3	1			3
Succinic Acid	1	3	3	3	1	2			2
Sucrose Solutions	1	1	1	1	2	1			1
Sugar Liquors, Cane, Beet, & Maple	1	1	1	1	1	1			1
Sugar Syrup	1	1	1	1		1			
Sulfamic Acid	1	3	3	3	1	3			2
Sulfanilic Acid	1	3	3	3	- 1	3			2
Sulfanilic Chloride	3	3	3	3	3	1			
Sulfanilimide	3	3	3	3	3	1			
Sulfate Liquor, Black, Green	1	2	2	2	2	1		1	2
Sulfite Liquors	3	3	3	3	2	2		3	3
Sulfolane	1	2	2	2	2	3			
Sulfonated Oils	3	3	3	3	3	1			

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Sulfonic Acid	1	3	3	3	1	3			3
Sulfonyl Choride	1	3	3	3	1	3			3
Sulfur	1	3	3	3	1				1
Sulfur (Molten)	3	3	3	3	3	1		3	3
Sulfur Chloride	3	3	3	3	3	1		3	3
Sulfur Dioxide Liquid, Pressurized	1	3	3	3	3	3			3
Sulfur Dioxide, Dry	1	3	3	3	3	2			3
Sulfur Dioxide, Wet	1	3	3	3	3	2			3
Sulfur Hexafluoride	1	3	3	3	1	2		1	2
Sulfur Liquors	2	2	2	2	2	1			3
Sulfur Monochloride	3	1	1	1	2				2
Sulfur Tetrafluoride	2					3			3
Sulfur Trioxide, Dry	2	3	3	3	3	1			
Sulfur Trioxide, Wet Sulfuric Acid, 0 to 25%, 150°F/66°C	1	3	3	3	2	1		3	3
Sulfuric Acid, 010 25%, 130 P700 C Sulfuric Acid, 20%-25% Oleum	3	3	3	3	3	1		3	3
Sulfuric Acid, 25-50%, 200°F/93°C	2	3	3	3	3	1		3	3
Sulfuric Acid, 3 Molar to 158°F/70C	1	2	2	2	2	1		3	3
Sulfuric Acid, 50-95%, 150°F/66°C	3	3	3	3	3	3		3	3
Sulfuric Acid, Furning	3	3	3	3	3	3		3	3
Sulfuric Chlorohydrin (Chlorosulfonic Acid)	1	3	3	3	1	3			3
Sulfurous Acid	3	3	3	3	3	3			3
Sulfurous Acid, 6%	1	2	2	2	2	3			3
Sunoco #3661	3	1	1	1	2	1			3
Sunoco All purpose grease	3	1	1	1	2	1			3
Sunoco SAE 10	3	1	1	1	2	1			3
Sunsafe (Fire resist. hydr. fluid)	3	1	1	1	2	1			

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Super Shell Gas	3	1	1	1	2	2			3
Surfuryl Chloride	1	3	3	3	1				2
Swan Finch EP Lube	3	1	1	1	3	1			3
Swan Finch Hypoid-90	3	1	1	1	2	1			3
Tall Oil	3	1	1	1		1			3
Tallow	3	1	1	1	2	1			2
Tannic Acid	1	- 1	1	1	1	1			2
Tanning Liquors (50 g. alum. solution, 50 g. dichromate sol	,	3	3	3	- 1	1			3
Tar, bituminous	3	2	2	2	3	- 1		3	2
Tartaric Acid	2	1	1	1	2	3		3	1
Tellone II						1			
Terephthalic Acid	1	3	3	3	- 1	1			2
Terpineol	3	2	2	2	3	1			
Terpinyl Acetate	3	2	2	2	3	3			
Tertiary Butyl Alcohol	2	2	2	2	2	1			2
Tertiary Butyl Catechol or p-tert-butylcatechol	2	3	3	3	2	1			
Tertiary Butyl Mercaptan	3	3	3	3	3	1			3
Tetrabromoethane	3	3	3	3	3	1			3
Tetrabromomethane	3	3	3	3	3	1			3
Tetrabutyl Titanate	1	2	2	2	2	1			3
Tetrachloroethane	3	3	3	3	3	1			
Tetrachloroethylene	3	3	3	3	3	1			3
Tetraethyl Lead	3	2	2	2	2	1			
Tetraethyl Lead "Blend"	3	2	2	2	3	1			
Tetraethyl Orthosilicate (TEOS)	1	- 1	1	1	1	1			3
Tetrahydrofuran		Co	ntact a	Victaul	lic Sale	s Repr	esenta	tive	
Tetralin		Co	ntact a	Victaul	lic Sale	s Repr	esenta	tive	

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SECTION D: GENERAL DEFINITION/ SEAL MATERIAL SELECTION SUBSECTION 2

Gasket Chemical Services Guide

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Revision: GSG-100 6490 Rev.(AA)

	Rating Code Key			_						
1 2	Most Applications Limited Applications	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
3	Restricted Applications	arad.	A High	ST /	AAD ite	3AF	AAD oela	AAD enat	APD Services	RAE
	Insufficient Data	00	<u></u>	ADE (19 × 1	σž	Fluor	GF	GP (Epict	G (S
	Chemical			R. ₹.				Ξ.		
Tetramethyl .	Ammonium Hydroxide	1	3	3	3	- 1	3			2
Tetramethylo	dihydropyridine	3	2	2	2	3	1			
Tetraphosph	oglucosate	1	3	3	3	- 1	3			2
Texaco 3450) Gear Oil	3	1	1	-1	3	1			3
Texaco Cape	ella A and AA	3	1	1	1	2	1			3
Texaco Merc	ppa 220 (No Lead)	3	1	1	1	2	1			3
Texaco Rega	al B	3	1	1	1	3	1			3
Texaco Uni-1	Temp Grease	3	1	1	1	2	- 1			2
Texamatic "A	N" 1581 Fluid	3	1	1	1	2	1			3
Texamatic "A	N" 3401 Fluid	3	1	1	1	2	1			3
Texamatic "A	N" 3525 Fluid	3	1	1	1	2	1			3
Texamatic "A	A" 3528 Fluid	3	1	1	1	2	1			3
Texamatic "A	A" Transmission Oil	3	1	1	1	2	1			3
Texas 1500 (Oil	3	1	1	1	2	1			2
Therminol 44	1	3	3	3	3	3	- 1			3
Therminol 55	5	3	2	2	2	3	- 1			3
Therminol VF	P-1, 60, 66	3	3	3	3	3	1			3
Thioamyl Alc	cohol	3	1	1	1	3	1			3
Thiodiacetic	Acid	1	3	3	3	1	3			2
Thioethanol		1	3	3	3	1	3			3
Thioglycolic	Acid	1	3	3	3	1	3			3
Thiokol TP-9	0B	1	3	3	3	3	3			
Thiokol TP-9	5	1	3	3	3	3	3			
Thiophospho	oryl Chloride	1	3	3	3	1	3			3
Thiourea		1	3	3	3	1	3			3
Thorium Nitra	ate	1	3	3	3	1	3			3
Tidewater Mi	ultigear, 140 EP Lube	3	1	1	1	2	1			3

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Rating Code Key									
1 Most Applications 2 Limited Applications 3 Restricted Applications Insufficient Data Chemical	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
Tidewater Oil-Beedol	3	1	1	1	3	1			3
Tin Ammonium Chloride	1	3	3	3	- 1	3			3
Tin Chloride	3	- 1	- 1	1	3	1			3
Tin Tetrachloride	3	- 1	1	1	3	1			3
Titanic Acid	1	3	3	3	- 1	3			3
Titanium Dioxide	1	3	3	3	1	3			3
Titanium Sulfate	1	3	3	3	1	3			3
Titanium Tetrachloride	3	2	2	2	3	1			3
Toluene	3	3	3	3	3	3		3	3
Toluene Diisocyanate (TDI)	3	3	3	3	3	3			3
Toluene Sulfonyl Chloride	3	2	2	2	3	1			
Toluenesulfonic Acid	1	3	3	3	- 1	3			3
Toluidine	3	2	2	2	3	3			
Toluquinone	3	3	3	3	3	1			
Toyaldehyde	1	3	3	3	1	3			2
Transformer Oil	3	1	1	1	2	1			2
Transmission Fluid, Type A	3	1	1	1	3	1		1	3
Triacetin	1	3	3	3	3	3			
Triaryl Phosphate	1	3	3	3	3	1			3
Tribromomethylbenzene	3	2	2	2	3	1			
Tributoxyethyl Phosphate	1	3	3	3	3	3			
Tributyl Citrate	1	3	3	3	1	3			3
Tributyl Mercaptan	3	3	3	3	3	3			3
Tributyl Phosphate	2	3	3	3	3	3			3
Tributylamine		3	3	3		3			
Trichloroacetic Acid	2	2	2	2	3	3			
Trichloroacetyl Chloride	3	2	2	2	3	1			

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	Rating Code Key										
1	Most Applications				GRADE ST / GRADE H (Hydrogenated Nitrile)	_		er)	utyl)	in)	
2	Limited Applications	Щ	<u>,</u> ⊢	- G L	GRA ed N	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	E L
3	Restricted Applications	Grade E	7 A	(Nitrile)	ST / enat	RAD ite N	3AD sopr	3AD oela	3ADI enate	ADE	GRADE L (Silicone)
	Insufficient Data	0.5	= 5	5	DE	Wh.	Q S	GF	GF	GR	(S)
					F, F,			Э)	H)	(F	
	Chemical										
Trichlorobena		3	_	2	2	2	3	3			
Trichloroetha		3		3	3	3	3	1			3
Trichloroetha		1		3	3	3	1	3			2
Trichloroethy		3	-	3	3	3	3	1		3	3
Trichloromet		3	_	3	3	3	3	1			3
	omethane (Chloropicrin)	3		3	3	3	3	3			3
Trichloroprop		3	_	3	3	3	3	1			3
Trichlorosilar		3		3	3	3	3	1			3
Tricresyl Pho	·			3	3	3	3	1		3	3
Triethanol Ar		2		3	3	3	2	3			
Triethyl Phos	·	3	_	2	2	2	3	1			
Triethylalumi		3		3	3	3	3	3			
Triethylboran		3		3	3	3	3	1			
Triethylene G		1		3	3	3	1	3			2
Triethylenete		1		3	3	3	1	3			2
Trifluoroaceti		1		3	3	3	1	3			2
Trifluoroetha		3	_	3	3	3	3	3			3
Trifluorometh		3		2	2	3	3	1			3
Trifluorovinyl		3		2	2	2	3	1			
	enzylchloride	3		3	3	3	3	3			
Trimethylami Trimethylben		1		2	2	2	1 3	1			3
Trimethylbora		3		2	2	2	3	1			
Trimethylpen		3	_	1	1	1	2	1		1	3
Trinitrololuen		3		3	3	3	2	3			
Trioctyl Phos		1		3	3	3	3	3			3
	·			3	 	3	1	3			3
Triphenylpho	popriile			3	3	3		3			3

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Tripoly Phosphate Tripoly Phosp	Rating Code Key 1 Most Applications 2 Limited Applications 3 Restricted Applications Insufficient Data	Grade E (EPDM)	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
Tripotassium Phosphate 1						_	_			
Trisodium Phosphate 1	<u> </u>									
Tung Oil (China Wood Oil) Turbine Oil 3 1 1 1 1 2 1 3 Turbine Oil Turbine Oil #15 (MIL-L-7808A) 3 2 2 2 3 1 3 Turbine Oil #35 3 1 1 1 2 1 3 Turbine Oil #35 3 1 1 1 2 1 3 Turpentine 3 1 1 1 1 2 1 3 Turpentine 3 1 1 1 1 2 1 3 Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A) Type II Fuel MIL-S-3136(ASTM Ref. Fuel B) 3 2 2 2 2 3 1 1 3 Type III Fuel MIL-S-3136(ASTM Ref. Fuel B) 3 2 2 2 2 3 1 1 3 Type III Fuel MIL-S-3136(ASTM Ref. Fuel B) 3 2 2 2 2 3 1 1 3 Ucon Hydrolube J-4 1 1 1 1 2 1 1 Ucon Lubricant 50-HB-100 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB-5100 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB-660 1 1 1 1 1 1 1 1 1 Ucon Lubricant LB-1145 1 1 1 1 1 1 1 1 Ucon Lubricant LB-135 1 1 1 1 1 1 1 1 1 Ucon Lubricant LB-285 1 1 1 1 1 1 1 1 1 Ucon Lubricant LB-285 1 1 1 1 1 1 1 1 1 Ucon Lubricant LB-65 1 1 1 1 1 1 1 1 1 Ucon Oil 50-HB-280x 1 2 2 2 2 2 1 1 Ucon Oil Heat Transfer Fluid 500 (Polyalkalene Glycol) 1 1 1 1 1 1 1 1 1 Ucon Oil LB-385 1 1 1 1 1 1 1 1 1										
Turbine Oil	·									
Turbine Oil #15 (MiL-L-7808A) Turbo Oil #35 Turbo Oil #35 Turpentine 3 1 1 1 1 2 1 3 Turpentine 3 1 1 1 1 2 1 3 Type I Fuel (MiL-S-3136)(ASTM Ref. Fuel A) 3 1 1 1 1 2 1 1 3 Type II Fuel MiL-S-3136 Type III Fuel MiL-S-314 Type III Fuel MiL-S-315 Type III Fuel MiL-S-315 Type III II I										
Turbo Oil #35 Turpentine 3 1 1 1 1 2 1 3 Turpentine 3 1 1 1 1 2 1 1 3 Turpentine 3 1 1 1 1 2 1 1 3 Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A) 3 1 1 1 1 2 1 1 3 Type II Fuel MIL-S-3136 3 2 2 2 2 3 1 1 3 Type III Fuel MIL-S-3136										
Turpentine Turpentine Turpe I Fuel (MIL-S-3136)(ASTM Ref. Fuel A) Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A) Type II Fuel MIL-S-3136 Type II Fuel MIL-S-3136 Type II Fuel MIL-S-3136 Type III Fuel MIL-S-3136(ASTM Ref. Fuel B) Type III Fuel MIL-S-3136 Type III T	' '									
Type I Fuel (MIL-S-3136) (ASTM Ref. Fuel A) Type II Fuel MIL-S-3136 Type II Fuel MIL-S-3136			- 1							
Type II Fuel MIL-S-3136 Type II Fuel MIL-S-3136(ASTM Ref. Fuel B) 3 2 2 2 3 1 1 3 Ucon Hydrolube J-4 1 1 1 1 2 1 1 Ucon Lubricant 50-HB-100 1 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB-260 1 1 1 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB-5100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	'									
Type III Fuel MIL-S-3136(ASTM Ref. Fuel B) 8 2 2 2 8 1 1 8 Ucon Hydrolube J-4 1 1 1 1 2 1 1 Ucon Lubricant 50-HB-100 1 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB-260 1 1 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB-5100 1 1 1 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB65 1 1 1 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB660 1 1 1 1 1 1 1 1 1 1 1 1 Ucon Lubricant 50-HB-660 1 1 1 1 1 1 1 1 1 1 1 1 1 Ucon Lubricant LB-1145 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, , , , , , , , , , , , , , , , , , , ,									
Ucon Hydrolube J-4 1 1 1 1 2 1 1 Ucon Lubricant 50-HB-100 1 <td< td=""><td colspan="2">71</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	71									
Ucon Lubricant 50-HB-100 1 </td <td colspan="2"><u>'</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	<u>'</u>									
Ucon Lubricant 50-HB-260 1 </td <td colspan="2">,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	,									
Ucon Lubricant 50-HB-5100 1<						- 1				
Ucon Lubricant 50-HB55 1 <td></td> <td>- 1</td> <td></td> <td></td> <td></td> <td>- 1</td> <td></td> <td></td> <td></td> <td></td>		- 1				- 1				
Ucon Lubricant 50-HB-660 1 </td <td></td> <td></td> <td>- 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			- 1							
Ucon Lubricant LB-1145 1 <td></td> <td>- 1</td> <td>1</td> <td></td> <td></td> <td>- 1</td> <td></td> <td></td> <td></td> <td></td>		- 1	1			- 1				
Ucon Lubricant LB-135 1			1				·			
Ucon Lubricant LB-285 1			1							
Ucon Lubricant LB-300X 1 <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
Ucon Lubricant LB-625 1										
Ucon Lubricant LB-65 1 1 1 1 1 1 1 1 1 Ucon Oil 50-HB-280x 1 2 2 2 2 1 Ucon Oil Heat Transfer Fluid 500 (Polyalkalene Glycol) 1 1 1 1 1 1 1 1 1 1 1 Ucon Oil LB-385 1 1 1 1 1 1 1 1 1 1 1										
Ucon Oil 50-HB-280x 1 2 2 2 2 1 1 Ucon Oil Heat Transfer Fluid 500 (Polyalkalene Glycol) 1										
Ucon Oil Heat Transfer Fluid 500 (Polyalkalene Glycol) 1										
Ucon Oil LB-385 1 1 1 1 1 1 1 1 1										
	, , , , , ,									
	Ucon Oil LB-400X		1	1	1	1	1			1

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Undecylenic Acid	3	2	2	2	3	2				
Undecylic Acid	3	2	2	2	3	2				
Univis 40 (Hydr. Fluid)	3	- 1	1	1	2	1			3	
Univolt #35 (Mineral Oil)	3	1	1	1	2	1			3	
Unsymmetrical Dimethyl Hydrazine (UDMH)	1	2	2	2	2	3			3	
UPDI (Ultrapure Deionized Water)	1	3	3	3	- 1	3			2	
Uranium Hexachloride						2				
Uranium Hexafluoride										
Uranium Sulfate										
Urea		3	3	3	3	3			3	
Uric Acid		3	3	3	1	3			2	
Valeraldehyde		3	3	3	- 1	3			2	
Valeric Acid		3	3	3	1	3			2	
Vanadium Oxide	3	1	1	1	2	2			2	
Vanadium Pentoxide	3	1	1	1	2	2			2	
Varnish	3	2	2	2	3	1			3	
Vegetable Oils	3	1	1	1	3	1		1	2	
Versilube F44, F55		1	1	1	1	1		1		
Versilube F-50	1	1	1	1	1	1		1	3	
Vinegar	1	2	2	2	2	1			1	
Vinyl Acetate		Contact a Victaulic Sales Representative								
Vinyl Benzene		Contact a Victaulic Sales Representative								
Vinyl Benzoate		Contact a Victaulic Sales Representative								
Vinyl Chloride		Contact a Victaulic Sales Representative								
Vinyl Fluoride	Fluoride Contact a Victaulic Sales Representative									
Vinylidene Chloride		Contact a Victaulic Sales Representative								
Vinylpyridine		Contact a Victaulic Sales Representative								

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Rating Code Key			H @									
1 Most Applications 2 Limited Applications	Grade E (EPDM)	DE T	/ GRADE ted Nitril	DE A Nitrile)	DE V rene)	DE O astomer)	DE M ted Buty	E M2 ohydrin)	DE L			
3 Restricted Applications Insufficient Data	Grac (EPI	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)			
Chemical			g =									
Vinyltoluene		Contact a Victaulic Sales Representative										
Vitriol (White)	1	3	3	3	1	3			2			
VV-H-910	1	3	3	3	2	1		2	2			
Wagner 21B Brake Fluid	1	3	3	3	2	3		3	3			
Water, Bromine	2	3	3	3	3	3			3			
Water, Chlorine	2	3	3	3	3	3						
Water, to 73°F/23°C	1	1	1	1	2	3		1	1			
Water, to 150°F/66°C	1	1	1	1	2	3		3	3			
Water, to 200°F/93°C		3	1	3	3	3		3	3			
Water, to 230°F/110°C		3	3	3	3	3		3	3			
Wemco C		1	1	1	2	1			3			
Whiskey and Wines		1	1	1	1	1			1			
White Liquor		1	1	1	1	1						
White Oil		1	1	1	2	1			3			
White Pine Oil	3	2	2	2	3	1			3			
Wolmar Salt	1	1	1	1	2	1			1			
Wood Alcohol	1	1	1	1	1	3			1			
Wood Oil		1	1	1	2	1			3			
Xenon		1	1	1	1	1			1			
Xylene	3	3	3	3	3	3		3	3			
Xylidenes-Mixed-Aromatic Amines	2	3	3	3	3	3			3			
Xylol	3	3	3	3	3	1			3			
Yeast	1	1	1	1	1	1			1			
Zeolites	1	1	1	1	1	1						
Zinc Acetate		2	2	2	2	3			3			
Zinc Ammonium Chloride		3	3	3	1	3			2			
Zinc Chloride		1	1	1	1	1			1			

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	Rating Code Key				I						
1	Most Applications		© ©	GRADE T (Nitrile)	GRADE ST / GRADE H (Hydrogenated Nitrile)	GRADE A (White Nitrile)	GRADE V (Neoprene)	GRADE O (Fluoroelastomer)	GRADE M (Halogenated Butyl)	GRADE M2 (Epichlorohydrin)	GRADE L (Silicone)
2	Limited Applications										
3	Restricted Applications		Grade E (EPDM)								
	Insufficient Data		00	9	VDE drog	\@\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		-luor	G alog	GF Epic	000
	Chemical				GR/ Hy			=	H))	
Zinc Chromat	te		1	3	3	3	1	3			2
Zinc Cyanide			1	3	3	3	1	3			2
Zinc Diethyldi	ithiocarbamate		1	3	3	3	1	3	1	-	2
Zinc Dihydrog	gen Phosphate		1	3	3	3	1	3	1	1	2
Zinc Fluorosil	Zinc Fluorosilicate			1			1	2	1	1	
Zinc Hydrosulfite		1	3	3	3	1	3	1	1	2	
Zinc Naphthenate			1			1	2	1	1		
Zinc Nitrate	Zinc Nitrate		1	1	1	1	1	1	1	1	
Zinc Oxide			1	1	1	1	1	1	1	1	
Zinc Phenols	Zinc Phenolsulfonate		1	3	3	3	1	3			2
Zinc Phosphate		1	1	1	1	1	1			1	
Zinc Salts	Zinc Salts		1	1	1	1	1	1			1
Zinc Silicofluc	Zinc Silicofluoride						-	2	-	ł	
Zinc Stearate			1	3	3	3	1	3	-	1	2
Zinc Sulfate	Zinc Sulfate		1	1	1	1	1	1		1	1
Zinc Sulfide		1	3	3	3	1	3	-	-	2	
Zirconium Nit	rate		1	1	1	1	1	1	-		- 1

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COMPLETE GASKET CHEMICAL SERVICE GUIDE	For a complete listing of chemical compatibility codes by elastometric seal material please refer to document GSG-100 found on our website at www.victaulic.com/longreport
WARRANTY	Refer to the Warranty section of the current Price List or contact Victaulic for details.
NOTE	This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.
INSTALLATION	Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

