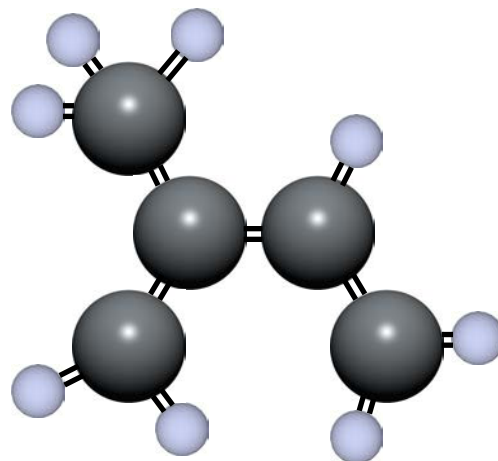


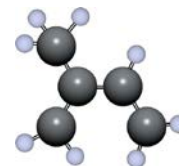


Compound Selection Guide





Compound Selection Guide



THIS DOCUMENT SHOULD BE USED AS A DESIGN GUIDE FOR SELECTING SUITABLE ELASTOMERIC MATERIALS FOR YOUR APPLICATION. IT IS DIVIDED INTO THREE SECTIONS:

POLYMERS

The polymers used by Precision Associates are listed on the next page. Included are the common names, the ASTM designations, chemical names, our number, and the polymer shrink range.

Our tooling is commonly cut for 2.0% shrinkage. Many compounds have shrinkage rates that will cause them to be outside of the normal tolerance range for a given size. Due to the elastic nature of rubber, products will often function well even though they are under/over sized. When designs requiring close tolerances are necessary, engineers should contact Precision Associates for specific guidelines. We may already have, or may suggest, special tooling to compensate for non-standard materials.

SPECIFICATIONS

This section contains a listing of specifications with an abbreviated description. When the specification describes a rubber material, we have included the Precision Associates compound number of first choice for evaluation. Other materials may be suitable as well.

Many Military specifications have Lot Testing requirements in addition to meeting the original property tests. These Lot Tests require additional cost and are added as one-time charges for each shipment. If a product is required to meet a specification, the specification number and all required tests must be noted when requesting pricing and when placing an order. Also, many Military specifications have size tolerance requirements that may necessitate special tooling.

CHEMICAL COMPATIBILITY

This section contains chemical names and our recommendation of a compound for you to evaluate. In most cases we have listed a black 70-75 durometer material in the most compatible, least expensive compound suitable for the application. Often we will have other compounds in different colors and/or durometers that may work even better in your particular application. With over 900 compounds in production, we are likely to have one that fits your requirements. If not, our team may develop one for you. Please contact us for our recommendations.

In addition to our recommended compound, we show the general compatibility of the most common polymers with each of the chemicals listed.

If multiple materials or unusual conditions complicate your sealing situation, please fill out the Material Selection Worksheet at the end of this section and fax it to us. Our technical staff will evaluate your data and contact you with our suggestion.

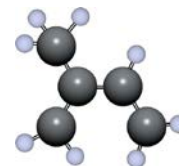
PLEASE NOTE:

The compounds listed in this Selection guide are recommendations only. Customers should determine the suitability of our compounds in their own applications.



Compound Selection Guide

Polymers



POLYMERS USED BY PRECISION ASSOCIATES

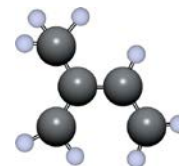
Common or Trade Name	ASTM Abbr	Chemical Name	PAI Cpd Series	Shrink Range %
Acrylic	ACM	Polyacrylate	21xxx	2.0 - 4.0
Aflas®	FEPM	Tetrafluoroethylene Propylene	25xxx	3.0 - 4.5
Blend		Various Polymer Blends	6xxx	
Buna N, Nitrile	NBR	Butadiene Acrylonitrile	3xxx	1.5 - 3.5
			5xxx	
			7xxx	
Buna S	SBR	Styrene Butadiene	15xxx	2.0 - 3.0
Butyl	CIIR	Chlorobutyl	13xxx	1.1 - 2.3
	IIR	Isobutylene Isoprene		
Carboxylated Nitrile	XNBR	Carboxylic Acrylonitrile Butadiene	77xxx	2.0 - 3.0
Chlorinated	CM	Chloro-Polyethylene	16xxx	2.0 - 3.0
EPDM	EPDM	Ethylene Propylene Diene Terpolymer	23xxx	1.9 - 3.5
Fluorel®	FKM	Fluoroelastomer	9xxx	2.0 - 4.5
Fluorosilicone	FVMQ	Fluoro Methyl Vinyl Silicone	20xxx	2.8 - 4.7
Highly Saturated Nitrile	HNBR	Hydrogenated NBR	55xxx	2.0 - 3.0
Hydrin	ECO	Epichlorohydrin	32xxx	2.0 - 3.0
Hypalon®	CSM	Chlorosulfonated Polyethylene	14xxx	1.8 - 3.0
Natural Rubber	IR	Isoprene	1xxx	2.0 - 3.5
Neoprene®	CR	Chloroprene	4xxx	1.0 - 3.0
P-REX™	FFKM	Perfluoroelastomer	34xxx	3.0 - 4.0
Silicone	PVMQ	Methyl Phenyl Vinyl Silicone	19xxx	2.0 - 5.0
	VMQ	Methyl Vinyl Silicone		
Silicone, Medical			49xxx	
Teflon®	PTFE	Tetrafluoroethylene	18xxx	N/A
Urethane	AU	Polyester Urethane	35xxx	1.6 - 3.3
	EU	Polyether Urethane		
Vamac®	AEM	Ethylene Acrylate	22xxx	2.0 - 4.0
Viton®	FKM	Fluoroelastomer	8xxx	2.0 - 4.5

COMPOUND NOMENCLATURE

Precision Associates compound numbers are typically four or five digits. The number(s) in the thousand position(s) specify the base polymer. The digit in the hundred position signifies the durometer in multiples of ten. The last two digits separate like-compounds within a given polymer/durometer group.

Examples for compounds 5747 and 19711 follow:

5	7	4	7	70 Durometer Butadiene Acrylonitrile
1	9	5	1 1	50 Durometer Silicone
Polymer Group	Duro	File Number		



SPECIFICATIONS

The following pages contain brief descriptions of over 365 military and industrial specifications that relate to O-Rings. For more complete information on these or other specifications please call our manufacturing facility. We are continually updating our files and developing new compounds to meet customer requirements.

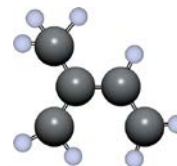
- (A4)** Age control, no more than 4 quarters old at time of delivery.
- (B)** Specification requires certification and testing of each lot and/or batch. There is an additional charge for this service when required. Customer must request Batch Certification when placing order.
- (P1)** Specification calls out individual packaging and identification per AMS 2817. This service is available at extra cost; quoted prices do not include individual packaging unless specifically stated.
- (P2)** Specification calls out individual packaging per MIL-P-4861.
- (Q)** QPL specification
- (T)** Qualification testing required.

- AIR** Aeronautical Information Report
- AMS** Aerospace Material Specification
- AN** Airforce-Navy Aeronautical Standard
- ARP** Aeronautical Recommended Practice
- AS** Aerospace Standard
- ASTM** American Society for Testing and Materials
- BSI** British Standards Institute
- DIN** German Institute for Standardization
- ISO** International Organization for Standardization
- JIS** Japanese Industrial Standard
- MIL** Military Specification
- MS** Military Standard
- NAS** National Aerospace Standard
- N/A** Not Available
- SAE** Society of Automotive Engineers

MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION															
CLHX3		Seal, Oil type ML - is a metal encased seal with spring-loaded leather or neoprene sealing member. Superseded by mil. specs.															
SAE J 14		Canceled. Superseded by SAE J200 and ASTM D2000.															
AIR 63		"O-Ring Size and Part Number Cross Reference Chart". Cross references many of the O-Ring sizes found on the various drawings: <table style="margin-left: 40px; border: none;"> <tr> <td>CKCX2</td> <td>CKCX3</td> <td>AS568</td> <td>AN6227</td> <td>AN 6230</td> </tr> <tr> <td>MX9021</td> <td>MS28775</td> <td>MS28784</td> <td>MS29513</td> <td></td> </tr> <tr> <td>AN123870</td> <td>AN12391</td> <td>AN123970</td> <td>AN124014</td> <td></td> </tr> </table>	CKCX2	CKCX3	AS568	AN6227	AN 6230	MX9021	MS28775	MS28784	MS29513		AN123870	AN12391	AN123970	AN124014	
CKCX2	CKCX3	AS568	AN6227	AN 6230													
MX9021	MS28775	MS28784	MS29513														
AN123870	AN12391	AN123970	AN124014														
AFLCM71		Preservation, Packaging methods and instructions for coding.															
AN-P-79		Superseded by MIL-P-5516B O-Rings class B Nitrile.															
AIR 81		"Hydraulic Fluid Characteristics"															
Fed. Std. 90		Describes the principle synthetic rubber specification limits sampling and testing.															
MIL-STD-100		"Engineering Drawing Practices".															
MIL-STD-105		"Sampling Procedures and Tables for Inspection by Attributes".															



Compound Selection Guide Specifications

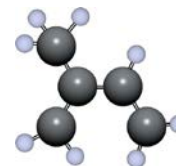


MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
H 106		"Multi-Level continuous sampling procedures and instructions for selection and administration of sampling inspection procedures".
H 107		"Single-Level Continuous Sampling Procedures and Tables for Inspection by Attributes".
MIL-P-116		"Methods of Preservation" to protect against corrosion, mechanical and physical damage.
MIL-B-117		"Heat sealable, interior packaging bags, sleeves and tubing required by Military Services for the protection of supplies".
SAE J 120 (Obsolete)		"Rubber Automotive Applications" Dash numbers correspond with AS 568 series. Dash number "R1" denotes O-rings;"R2" denotes square cross-section rings. Class I - Oil resistant service Class II - Gasoline Resistant service
MIL-P-121		Flexible, greaseproofed, waterproofed barrier material used for protection of supplies and equipment during transportation and storage.
MIL-STD-129		"Marking for Shipment and Storage".
MIL-STD-130		"Identification Marking of US Military Property".
MIL-HDBK-149		"Rubber" 500 page Handbook of Rubber Properties.
HH-P-151		"Cloth-Insert Rubber-Sheet Packing" Intended for flange joints for water or brine services up to 250 pounds pressure and ventilating systems.
HH-G-156		General Purpose Rubber Gasket Material. Type I - Soft 35-45 durometer Type II - Medium 50-60 durometer Type III - Hard 75-85 durometer
MIL-STD-177		"Terms for Visible Defects of Rubber Products".
NACE TM 0187		Standard test Method for Evaluating Elastomeric Materials in Sour Gas Environments
SAE J200		"Classification System for Rubber Materials for Automotive Applications" Same nomenclature system as ASTM D2000. See ASTM D2000 for more details.
MIL-STD-289		"Visual Inspection Guide for Rubber Sheet Material".
Mil-STD-298		"Visual Inspection Guide for Rubber Extruded Goods".
L-P-390		Polyethylene and copolymers for general purpose, dielectric and weather resistant uses in low, medium and high density.
MIL-STD-407		"Visual Inspection Guide for Rubber Molded Items".
MIL-STD-413		"Visual Inspection Guide for Rubber Molded O-Rings".
MIL-STD-417		Nomenclature system for specifying the properties of a wide range of compounds with many classes and grades. Supersedes MIL-R-3065.
MIL-G-432		"Synthetic Rubber Gaskets-Nonmetallic" Five types of synthetic rubber gaskets.
ANA 438		Canceled. Superseded by MIL-STD-1523.
MIL-STD-454		"Standard General Requirements for Electronic Equipment".
TT-C-490		"Cleaning Methods for Ferrous Surfaces & Pretreating for Organic Coatings".
L-P-512		"Requirements for Polyethylene Sheets".
SAE J 514		"Straight Thread Tube Fitting Boss Gasket Gland Dimensions".
SAE J 515	7915 23811 9948	"Hydraulic O-Ring" Sizes correspond with AS 568 straight thread tube fitting boss gaskets: Type CH Petroleum base and nonflammable waterbase hydraulic fluids 85-95 durometer. Type CA Nonflammable phosphate ester base hydraulic fluid 75-85 durometer. Type HK High Temperature for Hydraulic Fluids 85 -95 Durometer



Compound Selection Guide

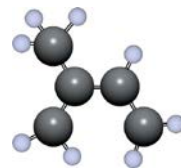
Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
AS 568A		Standardized dash numbering system for O-Rings. Dimensions for 379 sizes are published as the minimum and maximum cross section and inside diameter for each dash number and expressed both in millimeters and inches.
L-P-590		"Requirements for Polyethylene Molding and Extrusion Plastic Compounds".
FED-STD-601		Federal Test Method standard for sampling and testing rubber.
NAS 617		Thirteen standard size O-rings. Dash numbers correspond with AS 568 straight thread tube fitting boss gaskets (900 series). Material 65-75 durometer nitrile per MIL-R-7362 Type 1, Composition A.
MIL-STD-670		"Classification System and Tests for Cellular Elastomeric Materials".
MIL-HDBK-695		Shelf storage of rubber products.
AS 708		Special O-ring surface condition requirements (top quality).
NORSOK M-710		"Qualification of non-metallic sealing materials and manufacturers"
ZZ-R-710		Vulcanized rubber gasket material of 35 durometer hardness.
MIL-STD-726		"Packaging Requirements Code".
ASTM D735		Canceled. Superseded by SAE J200 and ASTM D2000.
TT-S-735	*	"Hydrocarbon Standard Test Fluids" Supersedes MIL-S-3136B Type I - Iso-octane (ASTM Ref. Fuel A) Type II - Iso-octane and aromatic mixture Type III - Iso-octane and toluene mixture (ASTM Ref. Fuel B) Type IV - Petroleum base oil, low swell characteristics (ASTM Oil #1) Type V - Petroleum base oil, medium swell characteristics (ASTM Oil #2) Type VI - Petroleum base oil, high swell characteristics (ASTM Oil #3) Type VII - Cyclohexane and aromatic mixture (Mercaptan added)
AS 757		Straight thread boss dimensions.
ZZ-R-765 (B) (A-A-55801) (A-A-59588)	See Table	"Silicone Rubber" Specifications for 3 classes with various grades (durometers). Class 1a Low temperature resistant Class 1b Low temperature resistant and low compression set high temperature Class 2a High temperature resistant Class 2b High temperature resistant and low compression set Class 3a Low temperature, tear and flex resistant Class 3b Flex and tear resistant Durometer: 30 40 50 60 70 80 Class 1a -- 19454 19566 19601 19701 19801 Class 1b -- 19454 19501 19601 19701 19801 Class 2a -- 19411 19511 19611 19711 19811 Class 2b -- 19411 19511 19611 19711 19811 Class 3a -- -- -- -- -- -- Class 3b -- -- -- -- -- --
ZZ-R-768		"Rubber for Mountings (Unbounded Spool and Compression Types)" Used for shock protection.



Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION																				
AIR 786		Rubber-fluid compatibility information.																				
ZZ-C-796		"Inflatable Ring Cushion".																				
MIL-STD-810		"Environmental Test Methods" for accelerated aging tests.																				
MIL-STD-831		"Preparation of Test Reports"																				
AS 871		O-Ring dimensional inspection guide.																				
MIL-R-900		"45 Durometer Hardness Rubber Gasket Material" for watertight and airtight enclosures. - 20° to 130°F.																				
MIL-G-1086 (B)	7886 7586	"Gasket Material, Synthetic Rubber" for Bolted Steel Tanks. Type I - 70-80 durometer Type II - 45-55 durometer																				
MIL-PRF-1149 (B) (MIL-G-1149)	See Table	"50 and 65 Durometer Hardness Synthetic Rubber Gasket Materials". Type I - 45-55 Type II - 60-70 Class 1 - Oil resistant chloroprene polymer Class 2 - Non-oil resistant styrene-butadiene copolymer Class 3 - Phosphate ester resistant isoprene-isobutylene copolymer Class 4 - None Class 5 - Fuel resistant acrylonitrile-butadiene copolymer <table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>Class 1</td> <td>Class 2</td> <td>Class 3</td> <td>Class 5</td> </tr> <tr> <td></td> <td>Chloroprene</td> <td>SBR</td> <td>Butyl</td> <td>NBR</td> </tr> <tr> <td>Type I</td> <td>4503</td> <td></td> <td>13501</td> <td>7501</td> </tr> <tr> <td>Type II</td> <td></td> <td>15605</td> <td>13666</td> <td>5606</td> </tr> </table>		Class 1	Class 2	Class 3	Class 5		Chloroprene	SBR	Butyl	NBR	Type I	4503		13501	7501	Type II		15605	13666	5606
	Class 1	Class 2	Class 3	Class 5																		
	Chloroprene	SBR	Butyl	NBR																		
Type I	4503		13501	7501																		
Type II		15605	13666	5606																		
MIL-STD-1188		"Commercial Packaging of Supplies and Equipment".																				
MIL-STD-1189		"Standard Department of Defense Bar Code Symbology".																				
ARP 1231		O-ring gland design considerations.																				
ARP 1232		O-ring gland design for static, radial squeeze.																				
ARP 1233		O-ring gland design for dynamic, radial squeeze.																				
ARP 1234		O-ring gland design for static and dynamic axial squeeze.																				
NAS 1515		Washers - Plastic and Synthetic Rubber.																				
SMS 1586		Swedish Military Standard Dimensions for (metric) O-Rings																				
SMS 1587		"Sealing elements - O-rings - Material"																				
SMS 1588		"Sealing elements - O-rings - Housings"																				
NAS 1593		Two hundred and forty-nine standard O-ring sizes. Dash numbers correspond with AS-9746-568. Material is a high-temperature, fluid-resistant, fluorocarbon rubber per MIL-R-83248 Type 1, Class 1 (70-80 durometer).																				
NAS 1594		Two hundred and forty-nine standard O-ring sizes. Dash numbers correspond with AS 568. Material is a high-temperature, fluid-resistant, fluorocarbon rubber per MIL-R-83248 Type 1, Class 2 (85-95 durometer).																				
NAS 1595		Twenty standard O-ring sizes. Dash numbers correspond with AS 568 straight thread tube fitting boss gaskets (900 series). Material is a high-temperature, fluid-resistant, fluorocarbon rubber per MIL-R-83248 Type 1, Class 1 (70-80 durometer).																				
NAS 1596		Twenty standard O-ring sizes. Dash numbers correspond with AS 568 straight thread tube fitting gasket (900 series). Material is a high-temperature, fluid-resistant, fluorocarbon rubber per MIL-R-83248 Type 1, Class 2 (85-95 durometer).																				



Compound Selection Guide

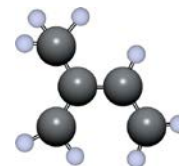
Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
NAS 1598		"Sealing washer" Metal washer with synthetic rubber O-ring bonded to inside diameter.
SAE J 1601		"Rubber Cups for Hydraulic Actuating Cylinders" .
SAE J 1603		"Rubber Seals for Hydraulic Disc Brake Cylinders".
SAE J 1604		"Rubber Boots for Drum Type Hydraulic Brake Wheel Cylinders".
SAE J 1605		"Brake Master Cylinder Reservoir Diaphragm Gasket".
NAS 1611 (T)		Two hundred and forty-nine standard O-ring sizes. Dash numbers correspond with AS 568. Material is ethylene propylene per NAS 1613.
NAS 1612 (T)		Twenty standard O-ring sizes. Dash numbers correspond with AS 568 straight thread tube fitting boss (900 series). Material is ethylene propylene per NAS 1613.
NAS 1613 (T)		"Phosphate Ester Resistant O-ring Packing" Qualification testing procedures and material specifications.
BIS BS 1806		"Specification for dimensions of toroidal sealing rings (O-Rings) and their housings (inch series)"
ASTM D2000		"Standard Classification System for Rubber Products in Automotive Applications" Establishes a nomenclature system for 'line call-outs' for commercially available elastomeric materials. Following is a partial list of the polymer type usually used for a given Type-Class. Precision Associates has compounds to meet nearly all specifications. Please call us with your specific call-out for more details and our compound number.
AA	1xxx 15xxx 13xxx	Natural Rubber, Polyisoprene SBR Butyl
AK	17xxx	Polysulfide (Thiokol®)
BA	23xxx 15xxx 13xxx	Ethylene Propylene High temperature SBR Butyl
BC	4xxx	Chloroprene (Neoprene®)
BE	4xxx	Chloroprene (Neoprene®)
BF	3xxx, 5xxx	Nitrile (Buna N)
BG	3xxx, 5xxx 35xxx	Nitrile Urethane, Millable gum
BK	17xxx	Polysulfide (Thiokol®)
CA	23xxx	Ethylene Propylene (EPDM)
CE	14xxx	Chlorosulfonated Polyethylene (Hypalon®)
CH	3xxx, 5xxx	Nitrile
DA	23xxx	Ethylene Propylene (EPDM)
DE	4xxx 14xxx	Chloroprene (Neoprene®) CSM (Hypalon®)
DF	21xxx	Polyacrylic (butyl-actylate type)
DH	21xxx	Polyacrylic
EE	22xxx	AEM (Vamac®)
EH	21xxx	ACM (Polyacrylic)
FC	19xxx	Silicones (high strength)
FE	19xxx	Silicones
FK	20xxx	Fluorinated silicones (Fluorosilicone)
GE	19xxx	Silicones
HK	8xxx, 9xxx	Fluorinated elastomers (Viton®, Fluorel®)
KK	34xxx	Perfluorinated elastomers (P-REX™)
MIL-STD-2073		Standard Practice for Military Packaging
ISO 2230		"Rubber products – Guidelines for storage"



Compound Selection Guide Specifications

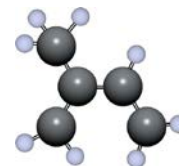


MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
JIS B 2401 (T)	See Table	Japanese Industrial Standard O-Rings Class 1A 5767 Class 2 5767 Class 4C 19711 Class 1B 5916 Class 3 23711 Class 4D 9746
MIL-R-2765		Synthetic rubber material for use as gaskets where resistance to oil and serviceability to temperatures above -20°F are required.
AMS 2817		"Packaging and Identification of Preformed Packings" Individual packaging and marking of O-ring in heat-sealed envelopes. Type I envelope - Polyethylene-lined natural kraft paper of 30lb. min. wt. per ream (opaque both sides). Type II envelope - One side as Type I, one side 300 gage cellophane coated with polyethylene.
MIL-P-2911 (Q)		"Hydraulic Conical and V Types Packing Assembly" Fiber reinforced at least 40% by weight. Type I - Hydraulic Conical Type II - Hydraulic V
MIL-G-3036		"Hot-Oil and Coolant Resistant Rubber Grommet".
MIL-R-3065		"Fabricated Rubber Products" Establishes the requirements for fabricated products of synthetic rubber together with procedures for the inspection of such products. Any material specification is per MIL-STD-417 nomenclature.
AN 3067		"3/8 Inch Conduit Boss Seal Assembly".
AS 3084		Twenty Standard O-ring sizes. Dash numbers correspond to AS 568 straight fluorocarbon rubber per AMS 7280.
AS 3085		"Preformed Packing" Three hundred and forty-nine standard size O-rings. Dash numbers correspond with AS 568. Material is a 70-80 durometer fluorocarbon per AMS 7280.
MIL-T-3100 (Q)		"Solid Rubber Tires".
MIL-S-3136		"Hydrocarbon Standard Test Fluids" Supplanted by TT-S-735.
AMS 3195		"Medium Closed Cell Silicone Rubber Sponge".
AMS 3196		"Firm Closed Cell Silicone Rubber Sponge".
AMS 3197		"Soft Chloroprene-Rubber Sponge".
AMS 3198		"Medium Chloroprene Type Synthetic Rubber Sponge".
AMS 3199		"Firm Chloroprene Type Synthetic Rubber Sponge".
AMS 3200 (B)	5606	"Petroleum-Base Hydraulic Fluid Resistant Nitrile Rubber 55-65 Durometer".
AMS 3201 (B)	3447	"Dry Heat Resistant Synthetic Rubber 35-45 Durometer".
AMS 3202 (B)		"Dry Heat Resistant Synthetic Rubber 55-65 Durometer".
AMS 3204 (B)		"Low Temperature Resistant Synthetic Rubber 25-35 Durometer".
AMS 3205 (B)		"Low Temperature Resistant Synthetic Rubber 45-55 Durometer".
AMS 3206		"Extreme Pressure Lubricant Resistant Synthetic Rubber 65-75 Durometer".
AMS 3207 (B)		"Weather Resistant Chloroprene Rubber 25-35 Durometer".
AMS 3208 (B)	4503	"Weather Resistant Chloroprene Type Synthetic Rubber 45-55 Durometer".
AMS 3209 (B)	4753	"Weather Resistant Chloroprene Type Synthetic Rubber 65-75 Durometer".
AS 3209 (B)		Preformed Packing. Material is a 70-80 durometer, high temperature, fluid resistant, low compression fluorocarbon per AMS7276.
AMS 3210 (B)		"Electrical Resistant Chloroprene Rubber 65-75 Durometer".
AMS 3212 (B)		"Aromatic Fuel Resistant Acrylonitrile Butadiene (NBR) Rubber 55-65 Durometer".



Compound Selection Guide

Specifications

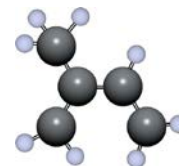


MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
AMS 3213 (B)	3847	"Aromatic Fuel Resistant Acrylonitrile Butadiene (NBR) Rubber 75-85 Durometer".
AMS 3214 (B)		"Aromatic Fuel Resistant Acrylonitrile Butadiene (NBR) Rubber 35-45 Durometer".
AMS 3215 (B)	3740	"Aromatic Fuel Resistant Acrylonitrile Butadiene (NBR) Rubber 65-75 Durometer".
AMS 3216 (B)	9848	"Fluorocarbon Rubber – Fuel and Oil Resistant".
AMS 3220 (B)	4624	"Synthetic Rubber 55-65 Durometer".
AMS 3222 (B)	4522	"High Swell Hot Oil Resistant Synthetic Rubber 45-55 Durometer".
AMS 3226 (B)		"Low Swell Hot Oil and Coolant Resistant Synthetic Rubber 45-55 Durometer".
AMS 3227 (B)	7627	"Low Swell Hot Oil and Coolant Resistant Synthetic Rubber 55-65 Durometer".
AMS 3228 (B)	7728	"Low Swell Hot Oil and Coolant Resistant Synthetic Rubber 65-75 Durometer".
AMS 3229 (B)		"Low Swell Hot Oil Resistant Synthetic Rubber 75-85 Durometer".
AMS 3230		"Oil Resistant Gasket".
AMS 3231		"Synthetic Rubber Binder Oil Resistant Gasket".
AMS 3237 (B)		"Phosphate Ester Resistant Butyl Rubber 35-45 Durometer".
AMS 3238 (B)		"Phosphate Ester Resistant Butyl Type Synthetic Rubber 65-75 Durometer".
AMS 3239 (B)		"Phosphate Ester Resistant Butyl Type Synthetic Rubber 85-95 Durometer".
AMS 3240 (B)	4409	"Weather Resistant Chloroprene Rubber 35-45 Durometer".
AMS 3241 (B)		"Weather Resistant Chloroprene Type Synthetic Rubber 55-65 Durometer".
AMS 3242 (B)	4844	"Weather Resistant Chloroprene Type Synthetic Rubber 75-85 Durometer".
AMS 3243 (B)	4651	"Flame Resistant Chloroprene Type Synthetic Rubber 55-65 Durometer".
AMS 3244 (B)	4753	"Flame Resistant Chloroprene Type Synthetic Rubber 65-75 Durometer".
AMS 3248 (B)		"Phosphate Ester Resistant Ethylene Propylene Type Synthetic Rubber 55-65 Durometer".
AMS 3249 (B)		"Hydrazine Base Fluid Resistant Ethylene Propylene Type Synthetic Rubber 75-85 Durometer".
AMS 3260 (B)	23551	"General Purpose Ethylene Propylene Terpolymer Synthetic Rubber Sheet".
AMS 3301 (B)	19411	"General Purpose Silicone Rubber 35-45 Durometer".
AMS 3302 (B)	19511	"General Purpose Silicone Rubber 45-55 Durometer".
AMS 3303 (B)	19611	"General Purpose Silicone Rubber 55-65 Durometer".
AMS 3304 (B)	19711	"General Purpose Silicone Rubber 65-75 Durometer".
AMS 3305 (B)	19811	"General Purpose Silicone Rubber 75-85 Durometer".
AMS 3306		"High Modulus Silicone Rubber 55-65 Durometer"
AMS 3307 (B)	19711	"Non-Oil Resistant Low Compression Set Silicone Rubber 70-80 Durometer".
AMS 3325 (B)	20662	"Fuel and Oil Resistant Fluorosilicone Rubber 55-65 Durometer".
AMS 3326 (B)	20662	"Fuel and Oil Resistant Fluorosilicone Rubber 50-65 Durometer".
AMS 3327 (B)		"High Temp. Fuel and Oil Resistant Fluorosilicone (FVMQ) Rubber 70-80 Durometer".
AMS 3328 (B)	20463	"Fuel and Oil Resistant Fluorosilicone (FVMQ) Rubber 35-45 Durometer".
AMS 3329 (B)	20563	"Fuel and Oil Resistant, Fluorosilicone (FVMQ) Rubber 45-55 Durometer, High Strength".



Compound Selection Guide

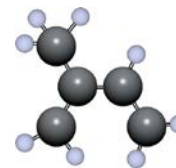
Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
AMS 3330 (B)	20563	"Fuel and Oil Resistant, Fluorosilicone (FVMQ) Rubber 45-55 Durometer".
AMS 3331 (B)		"Fuel and Oil Resistant, Fluorosilicone (FVMQ) Rubber 65-75 Durometer".
AMS 3334 (B)	19454	"Extreme Low Temperature Resistant Silicone Rubber 35-45 Durometer".
AMS 3335 (B)	19566	"Extreme Low Temperature Resistant Silicone Rubber 45-55 Durometer".
AMS 3336 (B)	19601	"Extreme Low Temperature Resistant Silicone Rubber 55-65 Durometer".
AMS 3337 (B)	19701	"High and Extreme Low Temperature Resistant Silicone Rubber 65-75 Durometer".
AMS 3338 (B)		"High and Extreme Low Temperature Resistant Silicone Rubber 75-85 Durometer".
AMS 3344 (B)		"1800psi Tensile Strength Silicone Rubber 45-55 Durometer".
AMS 3345 (B)	19524	"1000psi Tensile Strength Silicone Rubber 45-55 Durometer".
AMS 3346 (B)	19624	"1000psi Tensile Strength Silicone Rubber 55-65 Durometer".
AMS 3347 (B)	19559	"High Modulus 1200psi Tensile Strength Silicone Rubber 45-55 Durometer".
AMS 3348 (B)	19325	"High Resiliency 1150psi Tensile Strength Silicone Rubber".
AMS 3349 (B)		"High Resiliency 1100psi Tensile Strength Silicone Rubber 55-75 Durometer".
AMS 3356 (B)		"Lubricating Oil and Compression Set Resistant, Electrical Grade Silicone Rubber 55-65 Durometer".
AMS 3357 (B)	19711	"Lubricating Oil and Compression Set Resistant Silicone Rubber 65-75 Durometer".
MIL-D-3377		"Synthetic Rubber Diaphragms". Type I - Synthetic rubber composition without reinforcement Type II - Synthetic rubber reinforced with fabric
AMS 3384 (B)	8703	"Rubber, Fluorocarbon Elastomer (FKM), 70 to 80 Hardness, Low Temperature Sealing Tg -22 °F (-30 °C). For Elastomeric Shapes or Parts in Gas Turbine Engine Oil, Fuel and Hydraulic Systems."
MS 3420		"Adapter, Clamp to Cable, Bushing, Telescoping".
MIL-R-3533		"Sheet, Strip and Molded Synthetic Rubber" Oil and salt water resistant. Type I & II - Grade A, 75-85 durometer Type I & II - Grade B, 65-75 durometer
MIL-G-3545	*	"High Temperature Aircraft Grease".
AS 3569		"Packing, Preformed - O-Ring Seal". Material per AMS 7270
AS 3570		"Packing, Preformed - O-Ring Seal". Material per AMS 7274
ISO 3601/1		"Fluid Power Systems - O-Rings". Inside diameters, cross sections, tolerances and size identification code.
ISO 3601/2		"Fluid Power Systems - O-Rings". Housing dimensions for general applications.
ISO 3601/3		"Fluid Power Systems - O-Rings". Quality acceptance criteria.
SO 3601/4		"Fluid Power Systems - O-Rings". Anti-extrusion rings (back-up rings).
ISO 3601/5		"Fluid Power Systems - O-Rings". Suitability of elastomeric materials for industrial applications.
AMS 3651		"Polytetrafluoroethylene".
DIN 3771		"O-Rings for use in fluid power systems."
MIL-P-3803		"Plastic, Polyethylene, Molded and Extruded Shapes, Sheets and Tubing".



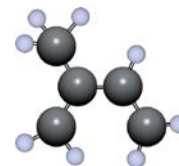
Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
ASTM D 3951		"Standard Practice for Commercial Packaging". Level A - Individual packaging in opaque bags, in accordance with MIL-P-116 Level C - Good commercial practice, 1, 5, 50, or 100 per bag
BIS BS 4518		"Specification for Metric dimensions of toroidal sealing rings (O-Rings) and their housings"
MIL-P-4861		"Packaging of Preformed Rubber Packing".
MIL-S-5049 (Q)		"Piston Rod Scrapers" Performance requirements and qualification tests. Type M - all metal Type R - containing rubber Class 2 - usable temperature range -65° to 275°F
MIL-P-5315 (Q)		"Hydrocarbon Fuel Resistant Preformed Packaging" Material is 60-70 durometer nitrile.
ARP 5316		"Storage of Elastomer Seals and Seal Assemblies Which Include an Elastomer Element Prior to Hardware Assembly."
MIL-B-5423		"General Specifications for Boots, Dust and Water Seal (for Toggle and Push Button Switches, Circuit Breaker and Rotary Actuated Parts)".
MIL-G-5510 (Q)		"Straight Thread Tube Fitting Boss Preformed Packings" Material is 88 durometer nitrile.
MIL-G-5514		"Gland design recommendations for standard size O-rings. Complete engineering design consideration for O-ring installation.
AMS-P-5516 (Q)		Specifies two classes of preformed packings for use where resistance to hydraulic fluid is required at temperatures from -65° to 160°F. Class A - Low Flexibility 83-93 durometer nitrile Class B - High Flexibility 63-72 durometer nitrile
MIL-W-5521 (Q)		"Aircraft Hydraulic Packing Backup Washer" Leather.
MIL-F-5566	*	"Anti-Icing Fluid (isopropyl alcohol)".
MIL-G-5572	*	"Aviation Gasoline Grades 80/87, 100/130, 115/145".
MIL-H-5606	*	"Petroleum Base Hydraulic Fluid".
MIL-T-5624	*	"Aviation Turbine Fuel Grades JP-4 and JP-5".
MIL-R-5847		"Silicone Rubber Low-and High-Temperature and Tear Resistant" Supplanted by ZZ-R-765. All Classes, grades and requirements remain the same. See ZZ-R-765 for PAI compounds that qualify.
MIL-L-6081	*	"Jet Engine Lubricating Oil".
MIL-L-6082	*	"Aircraft Reciprocating Engine (Piston) Lubricating Oil".
MIL-H-6083	*	"Petroleum Base Hydraulic Fluid for Preservation and Testing".
MIL-L-6085	*	"Low Volatility Aircraft Instrument Lubricating Oil".
MIL-A-6091		"Specially Denatured Ethyl Alcohol".
MIL-R-6130		"Chemically Blown Cellular Rubber".
ISO 6149		"Connections for hydraulic fluid power and general use -- Ports and stud ends with ISO 261 metric threads and O-ring sealing."
MIL-C-6183		"Cork and Synthetic Rubber Composition Sheets for Aromatic Fuel and Oil Resistant Gaskets".
AN 6225		V-Ring Dimensions. PAI manufactures most of the 80 sizes shown. Material specified is a 70 durometer nitrile per MIL-P-5516. However, V-Rings are available in other 90 durometer nitrile and Fluoroelastomer compounds.
AN 6226		U-Cup Dimensions. PAI manufactures all 53 sizes shown plus over 170 other U-Cup sizes. Material specified is a 70 durometer nitrile per MIL-P-5516 Class B. However, U-Cups are available in a wide range of compounds to meet your specific needs.



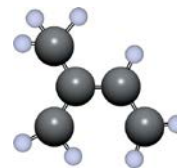
Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION																																																	
AN 6227		Eighty-eight O-ring sizes corresponding with AS 568 but dash numbers are different. Material specified is a 70 durometer nitrile per MIL-P-5516.																																																	
AN 6228		"V-Ring, Female Adapters" Sizes correspond to AN 6225. Material specified is aluminum alloy.																																																	
AN 6229		"V-Ring, Male Adapters" Sizes correspond to AN 6225. Material specified is aluminum alloy.																																																	
AN 6230		Fifty-two O-ring sizes corresponding with AS 568 but dash numbers are different. Material specified is a 70 durometer nitrile per MIL-P-5516. Entire size group has cross section 1/8" nominal, .139" actual.																																																	
AN 6231		"Hydraulic Piston Rod Scraper" Superseded by MS28776.																																																	
AN 6238		"Hydraulic Replacement Reservoir Type Filler Element Gasket" Material per MIL-P-5516 Class B. Flat Gaskets - 1 5.25" OD x 3.50" ID x 0.063" thick.																																																	
AN 6290 (Q)		"Box Gaskets, for use with MIL-H-5606 Hydraulic Fluid" Material is an 88+ durometer nitrile per MIL-P-5510.																																																	
MIL-L-6387		* "Synthetic Base Lubricant Oil".																																																	
MIL-PRF-6855 (B) (AMS-R-6855) (B) (MIL-R-6855) (B)	See Table	<p>"Synthetic Rubber, Sheets, Strips, Molded or Extruded Shapes".</p> <p>Low - Temperature Synthetic Rubber</p> <p>Class 1 - Fuel and Petroleum oil resistant</p> <p>Class 2 - Petroleum oil, weather and ozone resistant</p> <p style="padding-left: 40px;">Type A - High Ozone concentration</p> <p style="padding-left: 40px;">Type B - Low Ozone concentration</p> <p>Class 3 - Non-oil resistant</p> <p>Class 4 - Petroleum oil, weather and Ozone resistant (for use in contact with acrylic plastics)</p> <p style="padding-left: 40px;">Type A - High Ozone concentration</p> <p style="padding-left: 40px;">Type B - Low Ozone concentration</p> <p>Class 5 - Non-oil resistant (for use in contact with acrylic plastics durometers)</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Durometer:</th> <th>30</th> <th>40</th> <th>50</th> <th>60</th> <th>70</th> <th>80</th> </tr> </thead> <tbody> <tr> <td>Class 1</td> <td>--</td> <td>3447</td> <td>7555</td> <td>7655</td> <td>3740</td> <td>--</td> </tr> <tr> <td>Class 2a</td> <td>--</td> <td>4403</td> <td>4503</td> <td>4603</td> <td>4705</td> <td>4845</td> </tr> <tr> <td>Class 2b</td> <td>--</td> <td>4403</td> <td>4503</td> <td>4603</td> <td>4705</td> <td>4845</td> </tr> <tr> <td>Class 3</td> <td>--</td> <td>--</td> <td>--</td> <td>15606</td> <td>23711</td> <td>15805</td> </tr> <tr> <td>Class 4</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>Class 5</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Durometer:	30	40	50	60	70	80	Class 1	--	3447	7555	7655	3740	--	Class 2a	--	4403	4503	4603	4705	4845	Class 2b	--	4403	4503	4603	4705	4845	Class 3	--	--	--	15606	23711	15805	Class 4	--	--	--	--	--	--	Class 5	--	--	--	--	--	--
Durometer:	30	40	50	60	70	80																																													
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MIL-R-6891		"Anodic Rubber".																																																	
MIL-H-7083	5747	Nonflammable water-base hydraulic fluid for aircraft use.																																																	
AMS 7255 (B)	25796	"Rings, Sealing, Tetrafluoroethylene/Propylene Rubber (FEPM), Hydraulic Oil and Synthetic Oil Resistant 70 to 80".																																																	
AMS 7259 (B)		"Very Low Compression Set High-Temperature-Fluid Resistant Fluorocarbon Rubber Sealing Rings 85-95 Durometer".																																																	
AMS 7260 (B)		"Fuel and Low Temperature Resistant Synthetic Rubber Packing Rings 70-80 Durometer".																																																	
AMS 7263 (B)		"Phosphate Ester Hydraulic Fluid Resistant, Butyl Type Synthetic Rubber Packing Rings 85-95 Durometer".																																																	
AMS 7266 (B)	20766	"General Purpose High Temperature Fuel and Oil Resistant Fluorosilicone Rubber Sealing Rings".																																																	
AMS 7267 (B)	19720	"Heat Resistant, Low Compression Set Silicone Rubber Sealing Rings 70-80 Durometer".																																																	
AMS 7268 (B)	19711	"Non-Oil Resistant Low Compression Set Silicone Rubber Sealing Rings 65-75 Durometer".																																																	
AMS 7269 (B)		"Space and Vacuum Service Low Out Gassing Silicone Rubber Sealing Rings 45-55 Durometer".																																																	
AMS 7270 (Q)		"Fuel Resistant Synthetic Rubber Sealing Rings 65-75 Durometer".																																																	
AMS 7271 (B, P1)		"Fuel and Low Temperature Resistant Synthetic Rubber Sealing Rings 60-70 Durometer".																																																	



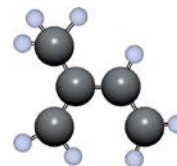
Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
AMS 7272 (B)	3772	"Synthetic Lubricant Resistant NBR Type Synthetic Rubber Sealing Rings 65-75 Durometer".
AMS 7273 (B)		"High Temperature Fuel and Oil Resistant Fluorosilicone Rubber Sealing Rings 70-80 Durometer".
AMS 7274 (B)	3774	"Oil Resistant Synthetic Rubber Sealing Rings 65-75 Durometer".
AMS 7275		"Synthetic Lubricant Resistant Fluorocarbon Type Synthetic Rubber Sealing Rings 65-85 Durometer".
AMS 7276 (Q)		"High-Temperature Fluid Resistant, Very Low Compression Set, Fluorocarbon Rubber Sealing Rings 70-80 Durometer".
AMS 7277		"Phosphate Ester Hydraulic Fluid Resistant Butyl Type Synthetic Rubber Sealing Rings 70-85 Durometer".
AMS 7278 (B)		"High Temperature Fluid Resistant Fluorocarbon Type Synthetic Rubber Sealing Rings 70-80 Durometer" NONCURRENT for new design AMS 7276 and AMS 7280 should be used where AMS 7278 material would have been suitable.
AMS 7279 (B)		"High Temperature Fluid Resistant Fluorocarbon Type Synthetic Rubber Sealing Rings 85-95 Durometer".
AMS 7280 (B)	9848	"High Temperature Fluid Resistant, Low Compression Set Fluorocarbon Rubber Sealing Rings 70-80 Durometer".
AMS 7287 (Q)		"Fluorocarbon Elastomer (FKM) High Temperature"
MIL-R-7362		"Diester Synthetic Oil Resistant Synthetic Rubber". Type I - O-Rings Type II - Molded parts, sheets, strips and extruded parts
MIL-L-7808		"Synthetic Base Aircraft Turbine Engine Lubricating Oil".
MIL-A-8243		"Anti-Icing and Deicing-Defrosting Fluid".
MIL-H-8446		"Aircraft Non-Petroleum Base Hydraulic Fluid".
MIL-C-8603		"Support Loop Type Clamps" for electrical wire bundles and other non-hydraulic uses".
MIL-S-8660		"Silicone, Compound NATO Code Number S-763".
MIL-R-8791		Tetrafluoroethylene resin (TFE) retainers intended for use in hydraulic and pneumatic system components as anti-extrusion devices in conjunction with packings and gaskets.
MIL-R-8913		"Piston Rod Wiper Ring" Sizes per MS 28903. Type I - Rubber rings Type II - Polytetrafluoroethylene rings (PTFE) Type III - Metallic rings
MS 9020 (P2)		Twenty O-ring sizes. Dash numbers correspond with AS 568 straight thread tube fitting boss gaskets (900 series). Material per AMS 7271.
MS 9021 (P2)		Three-hundred and twenty O-ring sizes. Dash numbers correspond with AS 568 series. Material per AMS 7271.
MS 9058		Scarf cut split Back-up rings. Eighteen sizes for straight thread tube fitting boss gaskets (900 series). Material is PTFE per AMS 3651.
MS 9068 (P2)	19711	Two-hundred and twenty-nine O-ring sizes. Dash numbers correspond to AS 568. Material is a 65-75 durometer silicone rubber per AMS 3304.
MS 9136		"Engine Accessory Drive Gasket" Asbestos and synthetic rubber.
MS 9203		Metal O-ring, .094" tube by .006" wall.
MS 9204		Metal O-ring, .094" tube by .010" wall.
MS 9205		Metal O-ring, .125" tube by .010" wall.
MS 9241 (P1, A4)	3772	Three-hundred and fifty-nine standard O-ring sizes. Dash numbers correspond to AS 568. Material is a 65-75 durometer nitrile per AMS 7272.
MS 9355 (P1)	3772	Twenty standard O-ring sizes. Dash numbers correspond to AS 568 straight thread tube fitting boss gaskets (900 series). Material is a 65-75 durometer nitrile per AMS 7272.



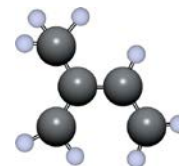
Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
MS 9373		Silver plated metal O-Ring: .062" tube by .010" wall.
MS 9374		Silver plated metal O-Ring: .094" tube by .006" wall.
MS 9375		Silver plated metal O-Ring: .094" tube by .010" wall.
MS 9376		Silver plated metal O-Ring: .125" tube by .010" wall.
MS 9385		Twenty standard O-ring sizes. Dash numbers correspond to AS 568 straight thread tube fitting boss gaskets (900 series). Material is a 70-80 durometer silicone per AMS 7267.
MS 9386		Three-hundred and fifty-nine standard O-ring sizes. Dash numbers correspond to AS 568. Material is a 70-80 durometer silicone per AMS 7267.
MS 9387 (P1)		Twenty standard O-ring sizes. Dash numbers correspond to AS 568 straight thread 9746 tube fitting boss gaskets (900 series) but tolerances are not as large. Material is a 70-80 durometer fluorocarbon per AMS 7278.
MS 9388 (P1)		Three-hundred and fifty-nine standard O-ring sizes. Dash numbers correspond to AS 568, but tolerances are not as large. Material is a 70-80 durometer fluorocarbon per AMS 7278.
MS 9484		Eighteen sizes of scarf cut split Back-up rings for straight thread tube fitting boss gaskets. Material is polytetrafluoroethylene (PTFE) per AMS 3651.
MIL-Q-9858		"Quality Program Requirements".
MS 9966 (P1)		Twenty standard O-ring sizes. Dash numbers correspond to AS 568 straight thread tube fitting boss gaskets (900 series). Material is a 70-80 durometer Fluorosilicone rubber per AMS 7273.
MS 9967 (P1)		Three-hundred and fifty-nine standard O-ring sizes. Dash numbers correspond to AS 568. Material is a 70-80 durometer Fluorosilicone rubber per AMS 7273.
MS 9968 (P1)	9848	"Internal Straight Thread Boss" Material 70-80 durometer fluorocarbon per AMS 7280.
MS 9970 (P1)		Three-hundred and fifty-nine standard size O-rings. Dash numbers correspond to AS 568, but tolerances are not as large. Material is an 85-95 durometer fluorocarbon rubber per AMS 7279.
ISO 10423		Petroleum and natural gas industries -- Drilling and production equipment -- Wellhead and christmas tree equipment.
MIL-L-10547		"Flexible Water-Vaporproof or Waterproof Case Liners. Overwraps and Sheets".
MIL-F-10870		"Insulated Food Container with Inserts" Elastomeric gasket per MIL-R-3065 and ASTM D2000.
MIL-G-10924		"Automotive and Artillery Grease".
ISO 10993		"Biological evaluation of medical devices". A twenty part series of standards.
MIL-R-11512		Synthetic rubber seals for pure petroleum insulating oil.
MIL-P-11719		"Preformed Rubber Packing for use with Pneumatic Hose Couplings".
MIL-G-12803		"Non-metallic Gasket Material" Does not cover molded gaskets.
MIL-M-12863		"Vibration Mounts".
MIL-G-13210		"Rubber Gaskets" intended for use in making gas-tight connections in the assembly of gas mask canisters.
ISO 13485		Medical devices - Quality management systems - Requirements for regulatory purposes
MIS 13937		"Ethylene Propylene Rubber Sheets, Molded and Cut Shapes". Type I - Molded sheets or parts Type II - Precision molded O-rings, gaskets and packing Type III - Extruded molds
ISO 14001		Environmental management systems -- Requirements with guidance for use



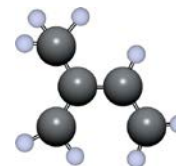
Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
MIL-C 14055 (Q)		"Synthetic Rubber Hydraulic Brake Actuating Cylinder Cup".
MIL-R-14328		"General Purpose Gasket Material (for Extreme Climatic Conditions) Medium Soft Synthetic Rubber Sheet".
MIL-P-14401		"Vehicular Personnel-Protection Cushioning Pads".
ISO 14644		"Cleanrooms and associated controlled environments". A nine part series of standards.
MIL-P-14574		"Cloth Insertion Synthetic Rubber Packing (Wiper Ring)" Fiber reinforced rubber rod wiper.
MIL-R-15624		Medium soft synthetic rubber for shipboard gasket use except low temperature application. Class 1 - Chloroprene Class 2 - Butadiene-styrene (SBR) Class 3 - Butadiene-acrylonitrile (NBR)
MS 17413 (P1)		Two hundred and thirty-nine standard size O-rings. Dash numbers to AS 568. Material is a 70-80 durometer fluorocarbon rubber per AMS 7278.
MIL-G-17553 (Q)		"O-Ring Gasket for Rockets".
MIL-D-17650		"Insert Type Rubber Valve Disk".
MIL-P-18484		"Synthetic Rubber Hydraulic-Seal Preformed Packing".
MIL-G-18586 (Q)		"Shipboard Electrical Junction Box O-ring Gaskets" -20°F and above. Class 1 - Butadiene-styrene copolymer (non-oil resistant) Class 2 - Butadiene-acrylonitrile copolymer (oil resistant)
MIL-P-19152		"High Pressure Hydraulic Packings (for Hydropneumatic Systems)".
MIL-H-19457		"Non-Neurotoxic Fire-Resistant Hydraulic Fluid".
MIL-G-19655		High-pressure gasket material for use where petroleum or phosphate ester hydraulic fluids are used.
MIL-G-19769		"Slide Valve Oil Resistant Synthetic Rubber Gaskets".
MIL-P-19918		"V-Ring Packing" material and Filler Ring Material.
MIL-S-21558		"Oil, Plain or Plain Encase Seals".
MIL-G-21569 (B)		Synthetic Rubber Cylinder Liner Seal Gaskets. Class I - Oil resistant 55-75 durometer butadiene and acrylonitrile copolymer Class II - High temperature resistant 55-75 durometer elastomeric polysiloxanes
MIL-G-21610 (B)	19611	Synthetic rubber gaskets of various cross sections for use in heat exchangers, 60-75 durometer. Type II - Elastomeric Polysiloxanes base material
MIL-S-21923		"Ozone Resistant Butadiene-Styrene Type Synthetic Rubber Compound for Low Temperature Service".
MIL-G-22004		"Lighting Fixture High Temperature Gasket".
MIL-G-22050 (B)		"Rubber Gasket, Packing Seals and Sheet Rubber Material, for use with Polar Fluids, Steam and Air at Moderately High Temperatures". Grade 1 - 60-70 durometer hardness Grade 2 - 75-85 durometer hardness Grade 3 - 85-95 durometer hardness
MIL-S-23190		"Plastic Straps, Clamps and Mounting Hardware for Cable Hardness Tying and Support".
MIL-M-23573		This specification covers chelated-Monethanolamine (MEA) for use in equipment for the removal of carbon dioxide from the air using a regenerative absorption process.



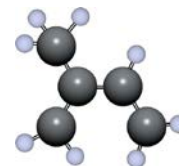
Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION
MIL-G-23652		Rubber gasket and packing material intended for use in 300psig hydraulic systems. The material is compatible with both petroleum base fluids and phosphate ester fluid. Specification requires either color coding of parts or individual packaging. Type I - for use in hydraulic systems up to 300psig pressure 65-75 durometer. Type II - for use in hydraulic systems up to 5200psig pressure 85-95 durometer.
ISO 239236-2		Petroleum, petrochemical and natural gas industries -- Non-metallic materials in contact with media related to oil and gas production -- Part 2: Elastomers (under development)
MIL-I-24063		"Insert Sets, Sound Isolation for RISIC-I Flexible Connectors".
MS 24690 (Q)		"Preformed High Pressure Air Valve Packing" One size only, 0.070" c/s x 0.551" ID. Material per MIL-P-5516, Class B.
MIL-P-25732 (Q) (Obsolete) MIL-R-25897 (Obsolete)		O-Ring packings for use with petroleum based hydraulic fluid over the temperature range of 65° to 275°F. Sizes conform to MS 28775 (same as AS 568 dash numbers). "High Temperature Fluid Resistant Fluorocarbon Elastomeric Rubber". Type I - O-Ring and compression seals Type II - Molded parts (other than sealing devices) sheets, strips and extruded shapes Class I (70-80 durometer) Type I & II Class II (85-95 durometer) Type I & II
AMS-R-25988 (MIL-R-25988) (B) (MIL-DTL-25988) (C)	See Table	"Oil and Fuel Resistant Fluorosilicone Elastomer Rubber Sheets, Strips, Molded Parts and Extruded Shapes". Type I - O-Rings Type II - Other Molded parts Class 1 - general purpose Class 2 - high-strength general purpose Class 3 - high modulus, increased temperature resistant <u>Type I O-Rings</u> Durometer: 40 50 60 70 80 90 Class 1 20662 20763 20863 Class 2 Class 3 <u>Type II Molded Parts</u> Durometer: 40 50 60 70 80 Class 1 20463 20563 20662 20763 Class 2 20563 Class 3
MIL R-25988/1 (B)	20763	"Grade 70 Class 1 O-Rings Oil and Fuel-Resistant Fluorosilicone Elastomer Rubber".
MIL-R-25988/2 (B)		"Grade 70 Class 3 O-Rings Oil and Fuel-Resistant Fluorosilicone Elastomer Rubber".
MIL-R-25988/3 (B)	20662	"Grade 60 Class 1 O-Rings Oil and Fuel-Resistant Fluorosilicone Elastomer Rubber".
MIL-R-25988/4 (B)		"Grade 80 Class 1 O-Rings Oil and Fuel-Resistant Fluorosilicone Elastomer Rubber".
MS 26577	19811	"Airport Marker Light Base Gasket" Material is a heat resistant silicone rubber per ZZ-R-765 Class 2a, Grade 80.
MS 27030		"Gasket-Coupling half, Quick Disconnect, Cam-locking Type" 10 sizes, flat gaskets.
MS 27198		Metal retainer with molded in rubber seal, material per MIL-R-25988.
MS 27290	19511	"Cable Adapter Bushing" Material is a silicone rubber per MIL-R-5847 Class 2b, Grade 50.



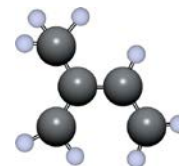
Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION																																										
MS 27488		"Electric Connector Sealing Plug".																																										
MS 27595		"Tetrafluoroethylene Continuous Ring Packing Backing Retainer" One-hundred and sixty-four sizes for standard O-Rings. Material per MIL-R-8791 Rectangular cross section.																																										
MS 28772 (Q)		"D-Ring Preform Packing Shock Strut" material per MIL-P-5516.																																										
MS 28773		"Straight Thread Tube Fitting Boss Tetrafluoroethylene Packing Backup Retainer" Thirteen sizes of 22-degree scarf cut backups for 900 series O-Rings. Rectangular cross section. Material per MIL-R-8791.																																										
MS 28774		"Tetrafluoroethylene Single Turn Packing Backup Retainer" One-hundred and sixty-four sizes of 22 degree scarf cut backups for standard O-Ring sizes. Rectangular cross section, material per MIL-R-8791.																																										
MS28775 (Q)		Three-hundred and fifty-nine standard O-ring sizes. Dash numbers correspond with AS 568. Material is a 68+ durometer nitrile per MIL-P-25732.																																										
MS 28776		"Piston Rod Scraper" PAI manufactures many of the 71 dash sizes in the dimensional style but not to the material specification in both 70 and 90 durometer nitrile.																																										
MS 28777		"Aircraft Hydraulic Packing Backup Washer" Thirteen sizes of uncut rectangular cross section backups for 900 series O-rings. Material specified is leather. PAI can supply in Teflon.																																										
MS 28778 (Q)		"Straight Thread Tube Fitting Boss Preformed Packing" Dash numbers correspond with AS 568 straight thread tube fitting boss gaskets (900 series) Material per MIL-P-5510.																																										
MS 28782		"Teflon Backup Packing Retainer" Eighty-eight sizes of spiral cut, double turn backups, dash numbers correspond to the dash numbers of AN 6227 packings. Material per MIL-R-8791.																																										
MS 28783		"Teflon Backup Gasket Ring" Twenty-five sizes of spiral cut double turn backup rings. Dash numbers correspond to AN 6230 gaskets. Material per MIL-R-8791.																																										
MS 28784		Canceled. Superseded by MS 28775.																																										
MS 28900	4753	<p>"Preformed Packings for Electrical Use" Material is a 65-75 durometer chloroprene per AMS 3209</p> <table border="1"> <thead> <tr> <th>Dash #</th> <th>PAI Size</th> <th>Dash #</th> <th>PAI Size</th> <th>Dash#</th> <th>PAI Size</th> </tr> </thead> <tbody> <tr> <td>-8</td> <td>31-332</td> <td>-20</td> <td>31-984</td> <td>-38</td> <td>1-110</td> </tr> <tr> <td>-10</td> <td>31-410</td> <td>-22</td> <td>31-1.109</td> <td>-40</td> <td>1-111</td> </tr> <tr> <td>-12</td> <td>31-526</td> <td>-24</td> <td>31-1.226</td> <td>-42</td> <td>1-112</td> </tr> <tr> <td>-14</td> <td>31-643</td> <td>-28</td> <td>47-1.453</td> <td>-44</td> <td>1-113</td> </tr> <tr> <td>-16</td> <td>31-779</td> <td>-32</td> <td>47-1.672</td> <td>-46</td> <td>1-114</td> </tr> <tr> <td>-18</td> <td>31-915</td> <td>-36</td> <td>47-1.891</td> <td>-48</td> <td>1-115</td> </tr> </tbody> </table>	Dash #	PAI Size	Dash #	PAI Size	Dash#	PAI Size	-8	31-332	-20	31-984	-38	1-110	-10	31-410	-22	31-1.109	-40	1-111	-12	31-526	-24	31-1.226	-42	1-112	-14	31-643	-28	47-1.453	-44	1-113	-16	31-779	-32	47-1.672	-46	1-114	-18	31-915	-36	47-1.891	-48	1-115
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-18	31-915	-36	47-1.891	-48	1-115																																							
MS 28903		"Hydraulic and Pneumatic Piston Rod Dirt Wiper Ring" Material per MIL-R-8913.																																										
MS 29512		"Fuel Resistant Straight Thread Tube Fitting Boss Gasket" Thirteen standard size O-rings. Dash numbers correspond to AS 568 straight thread tube fitting boss gaskets (900 series), Material per MIL-P-5315.																																										
MS 29513 (Q)		"Hydrocarbon Fuel Resistant Packing O-Ring" One-hundred and seventy-four standard size O-rings. Dash numbers correspond to AS 568. Material per MIL-P-5315.																																										
MS 29531		"Aircraft Engine Exhaust Port Closure Plug" Material per MIL-R-6855 Class I or II Grade 40, Color yellow.																																										
MS 29561 (P2)		"Synthetic Lubricant Resistant Preformed O-Ring Packing" One-hundred ninety-one standard size O-rings. Dash numbers correspond to AS 568. Material is a 65-75 durometer nitrile per MIL R-7362 Type I.																																										
MS 33649		"Straight Thread Tube Fitting Boss Gasket Gland Dimensions".																																										
MS 33666		"Range of Sizes Aeronautical Elastomer Preformed Packing" Two-hundred and fifty-six standard size O-rings. Dash numbers correspond to AS 568. No material specification.																																										
MS 33675		"Packing Gland Ring Scrapper Installation" No material specification.																																										
MS 33688		"Range of Sizes Elastomeric Tube Fitting Preformed Packing" Twenty standard dash sizes for straight thread tube fitting boss gaskets (900 series). No material specification.																																										



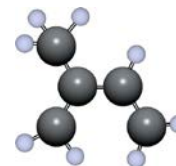
Compound Selection Guide Specifications



MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION																																																	
MS 35133		"Preformed Packing" Five dash sizes inactive for design after 11/6/64.																																																	
MS 35489		"Hot Oil and Coolant Resistant Rubber Grommet" Material 50 durometer nitrile per MIL-STD-417 Grade SB-515-A1, B1, C2, E3, F2.																																																	
MS 35769		"Copper and Asbestos Annular Metallic-Encased Gasket".																																																	
MS 35796		"Hot Galvanized (Pole-Line) Thimble Eye (Straight) Bolt".																																																	
MS 35803 (Q)		"Leather Backup Ring Packing Retainer" Material per MIL-R-5521.																																																	
MIL-S-45005		Spring-loaded single and multiple lip oil seal. The seal incorporates either a leather or synthetic elastomer sealing member.																																																	
MIL-I-45208		"Inspection System Requirements".																																																	
MIL-C-45662		"Calibration System Requirements".																																																	
MIL-R-46089		"Closed Cell Silicone Sponge Rubber".																																																	
MIL-L-46167 (Q)		"Arctic Internal Combustion Engine Lubricating Oil".																																																	
MIL-H-46170		"Fire Resistant Rush Inhibited Synthetic Hydrocarbon Base Hydraulic Fluid".																																																	
MIL-B-46176		"Operational and Preservation Automotive All Weather Silicone Brake Fluid".																																																	
NF T47-501		"Rubber O-Ring – Designation, sizes and tolerances." Published by AFNOR, the French standards association																																																	
MIL-C-50072		"Voicemitter-Outlet Valve Cover".																																																	
MS 51920		Steel encased rod seals.																																																	
MIL-S-52000		"Synthetic Rubber Gasket".																																																	
MIL-C-52211		"Packing of Components and Assemblies for Industrial Gas".																																																	
A-A-55801		"Silicone Rubber" Specifications for 3 classes with various grades (durometers). See A-A-59588 (below)																																																	
A-A-59588	See Table	<p>"Silicone Rubber" Specifications for 3 classes with various grades (durometers).</p> <p>Class 1a Low temperature resistant</p> <p>Class 1b Low temperature resistant and low compression set</p> <p>Class 2a High temperature resistant</p> <p>Class 2b High temperature resistant and low compression set</p> <p>Class 3a Low temperature, tear and flex resistant</p> <p>Class 3b Flex and tear resistant</p> <table border="1"> <thead> <tr> <th>Durometer:</th> <th>30</th> <th>40</th> <th>50</th> <th>60</th> <th>70</th> <th>80</th> </tr> </thead> <tbody> <tr> <td>Class 1a</td> <td>--</td> <td>19454</td> <td>19501</td> <td>19601</td> <td>19701</td> <td>19801</td> </tr> <tr> <td>Class 1b</td> <td>--</td> <td>19454</td> <td>19501</td> <td>19601</td> <td>19701</td> <td>19801</td> </tr> <tr> <td>Class 2a</td> <td>--</td> <td>19411</td> <td>19511</td> <td>19611</td> <td>19711</td> <td>19811</td> </tr> <tr> <td>Class 2b</td> <td>--</td> <td>19411</td> <td>19511</td> <td>19611</td> <td>19711</td> <td>19811</td> </tr> <tr> <td>Class 3a</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>Class 3b</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Durometer:	30	40	50	60	70	80	Class 1a	--	19454	19501	19601	19701	19801	Class 1b	--	19454	19501	19601	19701	19801	Class 2a	--	19411	19511	19611	19711	19811	Class 2b	--	19411	19511	19611	19711	19811	Class 3a	--	--	--	--	--	--	Class 3b	--	--	--	--	--	--
Durometer:	30	40	50	60	70	80																																													
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Class 1b	--	19454	19501	19601	19701	19801																																													
Class 2a	--	19411	19511	19611	19711	19811																																													
Class 2b	--	19411	19511	19611	19711	19811																																													
Class 3a	--	--	--	--	--	--																																													
Class 3b	--	--	--	--	--	--																																													
MIL-R-83248 (B)		<p>"High Temperature, Fluid and Compression Set Resistant, Fluorocarbon Elastomer Rubber".</p> <p>Type I - O-rings and compression seals</p> <p>Type II - Molded parts (other than sealing devices) sheets, strips and extruded shapes.</p> <p>Class 1 - 70-80 durometer</p> <p>Class 2 - 85-95 durometer</p>																																																	



Compound Selection Guide Specifications



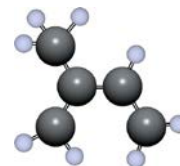
MIL SPEC	PAI CPD	DESCRIPTION OF SPECIFICATION																																								
MIL-R-83248/1		"Rubber, Fluorocarbon Elastomer, High Temperature, Fluid and Compression Set Resistant, O-Rings, Class 1, 75 Durometer".																																								
MIL-R-83248/2		"Rubber, Fluorocarbon Elastomer, High Temperature, Fluid and Compression Set Resistant, O-Rings, Class 2, 90 Durometer".																																								
MIL-R-82385		"General Purpose Ethylene-Propylene Rubber". Class I - 60-70 durometer hardness Class II - 85-95 durometer hardness																																								
MIL-R-83322		"Nitrogen Tetroxide (N2O4) Resistant Carboxy-Nitroso Rubber".																																								
MIL-R-83397		"Humidity Resistant Castable Polyurethane Rubber".																																								
MIL-R-83412		"Hydrazine Resistant Ethylene-Propylene Rubber". Type I - Seal Material Type II - Bladder and diaphragm material Type III - Valve seal material																																								
MIL-P-83461 (Q, B)		"Petroleum Hydraulic Fluid Resistant Preformed Packing Improved Performance at 275°F (136°C)".																																								
MS 83461 (Q)		Standard O-ring sizes corresponding to AS 568. Material per MIL P-83461.																																								
AMS-R-83485 (B) (MIL-P-83485) (Obsolete)	8703	"Fluorocarbon, Improved Performance at Low Temperature". <i>Superseded by AMS 3384 and AMS 7287</i>																																								
MIL-P-87175 (Q)		"Petroleum Hydraulic Fluid Resistant Phosphonitrilic Fluoroelastomer Preformed Packing". Grade 70 65-75 durometer Grade 80 75-85 durometer																																								
A-A-55549 (MS 90064)	19511 19711	"Round Preformed Packing for use with Waveguide Flanges and Dummy Loads". Waveform guides - material is a 45-55 durometer silicone per AMS 3302 Dummy loads - material is a 65-75 durometer silicone per AMS 3304 <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Dash #</th> <th>PAI size</th> <th>Dash #</th> <th>PAI size</th> </tr> </thead> <tbody> <tr><td>-1</td><td>1-012</td><td>-10</td><td>1-013</td></tr> <tr><td>-2</td><td>60-575</td><td>-11</td><td>60-575</td></tr> <tr><td>-3</td><td>1-115</td><td>-12</td><td>1-213</td></tr> <tr><td>-4</td><td>1-212</td><td>-13</td><td>92-1.338</td></tr> <tr><td>-5</td><td>92-1.338</td><td>-14</td><td>92-1.550</td></tr> <tr><td>-6</td><td>92-1.550</td><td>-15</td><td>1-227</td></tr> <tr><td>-7</td><td>2-227</td><td>-16</td><td>115-2.683</td></tr> <tr><td>-8</td><td>115-2.683</td><td>-17</td><td>1-346</td></tr> <tr><td>-9</td><td>1-345</td><td></td><td></td></tr> </tbody> </table>	Dash #	PAI size	Dash #	PAI size	-1	1-012	-10	1-013	-2	60-575	-11	60-575	-3	1-115	-12	1-213	-4	1-212	-13	92-1.338	-5	92-1.338	-14	92-1.550	-6	92-1.550	-15	1-227	-7	2-227	-16	115-2.683	-8	115-2.683	-17	1-346	-9	1-345		
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-3	1-115	-12	1-213																																							
-4	1-212	-13	92-1.338																																							
-5	92-1.338	-14	92-1.550																																							
-6	92-1.550	-15	1-227																																							
-7	2-227	-16	115-2.683																																							
-8	115-2.683	-17	1-346																																							
-9	1-345																																									
MS 90065	19511	"Gaskets (Rectangular, for use with Waveguide Flanges)" Material unless otherwise specified is a silicone per MIL-R-5847 Class 2b, Grade 50.																																								
AN 123020		"Aluminum-Asbestos Annular Gaskets".																																								
AN 123851 thru (B) AN 123950	3774	One hundred standard size O-rings. Sizes correspond with AS 568 but numbers are different. Material is a 65-75 durometer nitrile per AMS 7274.																																								
AN 123951 thru (B) AN 124050	3720	One-hundred standard size O-rings. Sizes correspond with AS 568 but numbers are different. Material is a 65-75 durometer nitrile per AMS 7270.																																								

* Specification is for Fluid. See Chemical Compatibility Chart for recommended compound.



Compound Selection Guide

Chemical Compatibility



Polymer Comparison

Values shown in the tables are for general comparison only. They do not represent individual compound recipes.

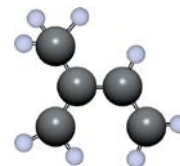
ASTM Abbr	Temperature Range (°F)		Durometer Range		Media Resistance							
	Low	High	Low	High	Oil	Fuel	Acid	Alkali	Ozone	Steam	Brake	Weather
ACM	-40	400	50	80	E	P-G	P-F	G-E	G-E	P	P	E
AEM	-50	350	40	90	F	P-G	P-F	P-F	E	P	P	E
AU	-65	250	40	90	G	P-G	P-G	P-F	E	P	P	E
CIIR	-50	300	60	70	P	P	F-E	G-E	E	G-E	G	F
CM	-60	300	80	80	G-E	P-F	G-E	E	E	P-F	G	E
CR	-80	220	30	90	F-G	P-F	F-G	G-P	G-E	P-G	F	P-G
CSM	-65	275	50	80	E	F	G-E	G-E	E-O	P-G	F	E-O
ECO	-80 to -15	275 to 325	50	90	E	G-E	P-G	P-G	G-E	F-G	P	G-E
EPDM	-75	350	40	90	P	P	G	G	G-E	E	G-E	E
EU	-65	250	40	90	G	P-G	P-G	P-F	E	P	P	E
FEPM	0	450 to 500	70	90	E	P-F	F-G	E	E	G-E	F-E	E
FKM	-20 to 20	500	50	90	E	E	G-E	P-G	O	P-G	F	E
FVMQ	-110 to -90	450	40	80	G-E	G-E	F-G	G-E	E	F-G	E	E
HNBR	-40	350	60	90	E	P-F	F-E	P-E	G-E	E	F	G-E
IIR	-75	300	60	70	P	P	F-E	G-E	E	G-E	G	E
IR	-60 to -20	180	30	70	P	P	P-G	F-G	P	F-G	G	P-F
NBR	-70 to -40	250 to 300	30	95	E	F-G	F-G	P-G	P-F	F-G	P	P-F
PVMQ	-150	450	20	80	F	P	P-F	P-E	E-O	F	G	E
SBR	-75	250	40	80	P	P-F	F	F-G	P	F-G	P-G	F-G
PTFE	N/A	400 to 500	95	95	E	E	E	E	O	E	E	E
VMQ	-100	500	20	80	F-G	P	P-G	P-E	E-O	F-G	E	E
XNBR	-50	250	50	90	E	F-G	F-G	P-G	P-F	P-F	P	P-F

P	Poor
F	Fair
G	Good
E	Excellent
O	Outstanding



Compound Selection Guide

Chemical Compatibility

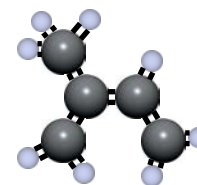


Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
AN-O-3 Grade M	5767	1	1	4	1	1	2	4	1	1	4	4	2	1	2	1
AN-O-6	5767	1	1	4	1	1	2	4	1	1	4	4	2	1	4	1
AN-O-366	5767	1	1	4	1	2	2	4	1	1	4	4	2	1	4	1
AN-VV-O-366b Hydraulic Fluid	5767	1	1	4	1	1	2	4	2	2	4	4	2	1	4	X
ANG-25 (Di-ester Base)	9746	2	2	4	1	2	4	4	2	4	4	4	4	2	2	X
ANG-25 (Glycerol Ester)	23711	2	2	1	1	1	2	2	4	4	2	2	2	2	2	X
ASTM Oil #1	5747	1	1	4	1	1	1	4	1	1	4	4	2	1	1	1
ASTM Oil #2	5747	1	1	4	1	1	2	4	1	2	4	4	4	1	4	1
ASTM Oil #3	5747	1	1	4	1	1	4	4	1	2	4	4	4	1	3	1
ASTM Oil #4	9746	2	2	4	1	1	4	4	2	4	4	4	4	2	4	1
ASTM Oil #5	9746	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
ASTM Reference Fuel A	5747	1	1	4	1	1	2	4	2	1	4	4	2	1	4	1
ASTM Reference Fuel B	5767	1	1	4	1	1	4	4	4	2	4	4	4	1	4	1
ASTM Reference Fuel C	9746	2	2	4	1	1	4	4	4	4	4	4	4	2	4	1
ASTM Reference Fuel D	9746	2	2	4	1	4	4	X	X	X	X	X	X	X	X	1
ATL-857	9746	2	2	4	1	1	4	4	2	4	4	4	4	2	4	X
Abietic Acid	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acetaldehyde	23711	4	3	1	4	3	3	3	4	4	1	2	3	4	2	1
Acetamide	4753	1	1	1	2	2	2	4	4	4	1	4	2	1	2	1
Acetanilide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Acetic Acid, 30%	23711	2	2	1	2	X	1	2	4	4	2	2	2	2	1	1
Acetic Acid, 5%	23711	2	2	1	1	1	1	2	4	4	1	2	1	2	1	1
Acetic Acid, Glacial	23711	3	3	1	3	3	4	2	4	4	2	2	3	4	2	1
Acetic Acid, Hot, High Pressure	N/A	4	4	3	4	3	4	4	4	4	4	4	3	4	3	1
Acetic Anhydride	4753	3	4	2	4	2	2	2	4	4	2	2	1	4	3	1
Acetoacetic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Acetone	23711	4	4	1	4	2	3	3	4	4	1	3	2	4	3	1
Acetone Cyanohydrin	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Acetonitrile	23711	3	X	1	1	1	X	X	X	X	X	X	X	X	X	1
Acetophenetidine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Acetophenone	23711	4	4	1	4	2	4	4	4	4	1	4	4	4	4	1
Acetotoluidide	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Acetyl Acetone	23711	4	4	1	4	2	4	4	4	4	1	4	4	4	4	1
Acetyl Bromide	9746	4	4	1	1	2	4	4	4	4	1	4	4	4	4	1
Acetyl Chloride	9746	4	4	4	1	2	4	4	4	4	4	4	4	1	4	1
Acetylene	23711	1	1	1	1	1	2	2	4	4	1	2	2	X	2	1
Acetylene Tetrabromide	9848	4	4	1	1	1	2	4	X	4	1	X	X	X	X	1
Acetylene Tetrachloride	9848	4	4	1	1	1	2	4	X	4	1	X	X	X	X	1
Acetylsalicylic Acid	9848	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1



Compound Selection Guide

Compound Worksheet



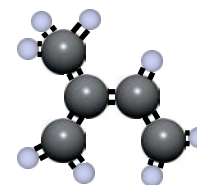
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Acids, Non-organic	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acids, Organic	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aconitic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acridine	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acrolein	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Acrylic Acid	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Acrylonitrile	34744	4	4	4	3	3	4	4	4	4	4	4	3	4	4	1
Adipic Acid	23711	1	1	2	1	2	1	1	X	X	1	1	X	1	X	1
Aero Lubriplate	3720	1	1	4	1	2	1	2	1	1	4	4	1	1	2	1
AeroShell Grease 17	3720	1	1	4	1	2	2	4	1	1	4	4	1	1	2	1
AeroShell Grease 750	9745	2	2	4	1	2	4	4	2	4	4	4	4	2	4	1
AeroShell Grease 7A	3720	2	2	4	1	2	2	4	1	1	4	4	1	1	2	1
AeroShell Grease 1AC	3720	1	1	4	1	2	2	4	1	1	4	4	1	1	2	1
Aerosafe 2300	23711	4	4	1	4	2	4	4	4	4	2	4	4	3	3	1
Aerosafe 2300W	23711	4	4	1	4	2	4	4	4	4	2	4	4	3	3	1
Aerozine 50 (50% Hydrazine 50% UDMH)	23711	3	3	1	4	2	4	4	X	4	1	4	4	4	4	2
Air Below 200° F	23711	2	2	1	1	1	1	2	1	2	1	2	1	1	1	1
Air, 200 - 300° F	19711	3	3	2	1	1	2	4	2	3	2	4	2	1	1	1
Air, 300 - 400° F	19711	4	4	4	1	2	4	4	4	4	4	4	4	2	1	1
Air, 400 - 500° F	N/A	4	4	4	3	3	4	4	4	4	4	4	4	4	2	2
Aliphatic Dicarboxylic Acid	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Alkanes (Paraffin Hydrocarbons)	5767	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Alkanesulfonic Acid	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Alkazene	9746	4	4	4	2	2	4	4	4	4	4	4	4	2	4	1
Alkenes (Olefin Hydrocarbons)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Alkyl Acetone	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Alkyl Alcohol	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Alkyl Amine	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Alkyl Aryl Sulfonates	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Alkyl Aryl Sulfonics	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Alkyl Benzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Alkyl Chloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Alkyl Sulfide	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Alkyl naphthalene Sulfonic Acid	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Allyl Chloride	9746	2	2	4	1	X	1	X	X	X	X	X	X	X	X	1
Allylidene Diacetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Alpha Picoline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Aluminum Acetate	23711	2	2	1	4	2	2	2	4	4	1	1	1	4	4	1
Aluminum Bromide	5747	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1

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Compound Selection Guide

Compound Worksheet



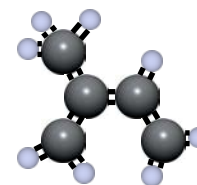
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Aluminum Chlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Aluminum Chloride	5780	1	1	1	1	1	1	1	1	3	1	1	1	1	2	1
Aluminum Ethylate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aluminum Fluoride	5780	1	1	1	1	1	1	1	X	3	1	2	1	1	2	1
Aluminum Fluorosilicate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aluminum Formate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Aluminum Hydroxide	23711	2	X	1	2	1	X	X	X	X	X	X	X	X	2	1
Aluminum Linoleate	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Aluminum Nitrate	5780	1	1	1	1	1	1	1	X	3	1	1	1	X	2	1
Aluminum Oxalate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Aluminum Phosphate	23711	1	1	1	1	1	1	1	X	X	1	1	1	X	1	1
Aluminum Potassium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Aluminum Salts	5747	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1
Aluminum Sodium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Aluminum Sulfate	5780	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Alums-NH3 -Cr -K	5747	1	1	1	4	2	1	1	4	X	1	1	1	4	1	1
Ambrex 33 (ExxonMobil)	5747	1	1	4	1	2	2	4	1	2	4	4	3	3	4	1
Ambrex 830 (ExxonMobil)	5747	1	1	3	1	2	2	4	1	1	3	4	2	1	2	1
Amines-Mixed	4753	4	4	2	4	3	2	2	4	4	2	2	4	4	2	1
Aminoanthraquinone	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aminoazobenzene	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Aminobenzene Sulfonic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aminobenzoic Acid	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Aminopyridine	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Aminosalicylic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ammonia (Anhydrous)	4753	2	2	1	4	2	1	4	4	4	1	4	2	4	3	1
Ammonia and Lithium Metal in Solution	23711	2	2	2	4	3	X	4	4	4	2	4	4	4	4	4
Ammonia, Gas, Cold	4753	1	1	1	4	2	1	1	4	3	1	1	1	4	1	1
Ammonia, Gas, Hot	19711	4	4	2	4	2	2	4	4	4	2	4	2	4	1	1
Ammonia, Liquid (Anhydrous)	4753	2	2	1	4	2	1	4	4	4	1	4	2	4	3	1
Ammonium Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Arsenate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Benzoate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Bicarbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Bisulfite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Bromide	5747	1	1	1	1	1	1	1	X	1	1	1	1	X	X	1
Ammonium Carbamate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Carbonate	4753	4	4	1	1	1	1	1	4	4	1	1	1	X	X	1
Ammonium Chloride, 2N	5780	1	1	1	1	1	1	1	X	1	1	1	1	X	X	1

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Compound Worksheet



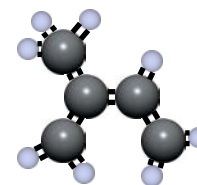
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Ammonium Citrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Dichromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Diphosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Fluoride	5747	1	1	1	1	1	1	1	X	1	1	1	1	X	X	1
Ammonium Fluorosilicate	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Ammonium Formate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Hydroxide, 3 Molar	23711	1	1	1	3	2	1	2	4	4	1	2	1	1	1	2
Ammonium Hydroxide, Concentrated	23711	4	4	1	2	2	1	4	4	4	1	4	1	2	1	1
Ammonium Iodide	5747	1	1	1	1	1	1	1	X	1	1	1	1	X	X	1
Ammonium Lactate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Metaphosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Molybdenate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Nitrate, 2N	5780	1	1	1	1	1	1	2	2	4	1	3	1	X	X	1
Ammonium Nitrite	5780	1	1	1	1	2	1	1	X	X	1	1	1	X	2	1
Ammonium Oxalate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Perchlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Perchloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ammonium Persulfate 10%	23711	4	4	1	1	2	1	4	4	4	1	1	1	X	X	1
Ammonium Persulfate Solution	23711	4	4	1	1	2	X	4	4	4	1	1	1	X	X	1
Ammonium Phosphate	5780	1	1	1	1	2	1	1	X	X	1	1	1	X	1	1
Ammonium Phosphate, Dibasic	5780	1	1	1	1	2	1	1	X	X	1	1	1	X	1	1
Ammonium Phosphate, Mono-Basic	5780	1	1	1	1	2	1	1	X	X	1	1	1	X	1	1
Ammonium Phosphate, Tribasic	5780	1	1	1	1	2	1	1	X	X	1	1	1	X	1	1
Ammonium Phosphite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Picrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Polysulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Salicylate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Salts	5747	1	1	1	3	2	1	1	3	X	1	1	1	3	1	1
Ammonium Sulfamate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Sulfate	5780	1	1	1	2	2	1	1	4	1	1	1	1	X	X	1
Ammonium Sulfate Nitrate	5747	1	1	1	4	2	1	2	4	X	1	1	1	X	X	1
Ammonium Sulfide	5747	1	1	1	4	2	1	2	4	X	1	1	1	X	X	1
Ammonium Sulfite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Thiocyanate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Thioglycolate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Thiosulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Tungstate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ammonium Valerate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Amyl Acetate	34860	4	4	3	4	3	4	4	4	4	3	4	4	4	4	1

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Compound Worksheet



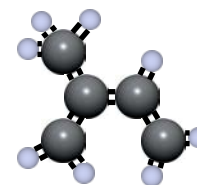
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU /EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Amyl Alcohol	23711	2	2	1	2	1	2	2	4	4	1	2	1	1	4	1
Amyl Borate	5780	1	1	4	1	X	1	4	X	X	4	4	1	X	X	1
Amyl Butyrate	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Amyl Chloride	9746	X	X	4	1	2	4	4	4	X	4	4	4	2	4	1
Amyl Chloronaphthalene	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Amyl Cinnamic Aldehyde	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Amyl Laurate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Amyl Mercaptan	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Amyl Naphthalene	9746	4	4	4	1	2	4	4	2	4	4	4	4	1	4	1
Amyl Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Amyl Nitrite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Amyl Phenol	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Amyl Propionate	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Anderol®, L- 774 (di-ester)	9746	2	2	4	1	2	4	4	2	4	4	4	4	2	4	1
Anderol®, L- 826 (di-ester)	9746	2	2	4	1	2	4	4	2	4	4	4	4	2	4	1
Anderol®, L- 829 (di-ester)	9746	2	2	4	1	2	4	4	2	4	4	4	4	2	4	1
Aniline	23711	4	4	1	3	1	4	4	4	4	1	4	3	3	4	1
Aniline Dyes	23711	4	4	1	2	2	2	2	4	4	2	2	2	2	3	1
Aniline Hydrochloride	23711	2	2	2	2	2	4	4	4	4	2	2	4	2	4	1
Aniline Oil	23711	4	4	2	3	2	4	4	4	4	2	4	4	3	4	1
Aniline Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Aniline Sulfite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Animal Fats	5780	1	1	2	1	1	2	4	1	1	2	4	2	1	2	1
Animal Oil (Lard Oil)	5780	1	1	2	1	2	2	4	1	1	2	4	4	1	2	1
Anisole	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Anisoyl Chloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ansul Ether 161 or 181	34860	3	3	3	4	3	4	4	4	2	3	4	4	3	4	1
Anthracene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Anthranilic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anthraquinone	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anti-freeze Solutions	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Antimony Chloride	5747	1	1	4	1	1	2	4	1	1	4	4	2	1	4	1
Antimony Pentachloride	5747	1	1	4	1	1	2	4	1	1	4	4	2	1	4	1
Antimony Pentafluoride	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Antimony Sulfate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Antimony Tribromide	5747	1	1	4	1	1	2	4	1	1	4	4	2	1	4	1
Antimony Trichloride	5747	1	1	4	1	1	2	4	1	1	4	4	2	1	4	1
Antimony Trifluoride	5747	1	1	4	1	1	2	4	1	1	4	4	2	1	4	2
Antimony Trioxide	5747	1	1	4	1	1	2	4	1	1	4	4	2	1	4	1

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Compound Selection Guide

Compound Worksheet



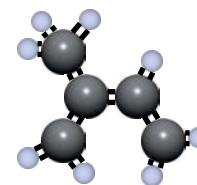
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Aqua Regia	34860	4	4	3	2	3	4	4	4	4	4	4	2	3	4	1
Arachidic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Argon	13766	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Aroclor, 1248	9746	3	3	3	1	1	4	4	4	4	3	4	1	2	2	1
Aroclor, 1254	9746	4	4	3	1	1	4	4	4	4	4	4	4	2	3	1
Aroclor, 1260	9746	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Aromatic Fuel - 50%	9746	2	2	4	1	2	4	4	4	4	4	4	4	2	4	1
Arsenic Acid	23711	1	1	1	1	1	1	1	3	3	1	2	1	1	1	1
Arsenic Oxide	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Arsenic Trichloride	5780	1	1	3	4	X	1	4	X	X	3	4	X	X	X	1
Arsenic Trioxide	5747	1	1	4	4	X	1	X	X	X	X	X	X	X	X	1
Arsenic Trisulfide	5747	1	1	4	4	X	1	X	X	X	X	X	X	X	X	1
Arsenites	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Arsine	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aryl Orthosilicate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ascorbic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Askarel Transformer Oil	9746	2	2	4	1	2	4	4	4	4	4	4	4	2	4	1
Aspartic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Asphalt	9746	2	2	4	1	2	2	4	2	2	4	4	2	2	4	1
Atlantic Dominion F	5767	1	1	4	1	2	2	4	1	2	4	4	4	1	4	1
Atlantic Utro Gear-EP Lube.	9746	1	1	4	1	2	2	4	1	1	4	4	4	1	4	1
Atlantic Utro Gear-e	5767	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Aure 903R (Mobil)	3716	1	1	4	1	2	2	4	1	1	4	2	4	4	4	1
Automatic Transmission Fluid (Type A)	3720	1	1	4	1	2	2	4	1	1	4	4	2	1	2	1
Automotive Brake Fluid	23747	3	3	1	4	2	2	1	4	4	2	X	2	4	3	1
Azobenzene	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bardol B	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Barium Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Barium Chlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Barium Chloride	5780	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Cyanide	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Hydroxide	5780	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Barium Iodide	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Barium Oxide	5747	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Barium Peroxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Barium Polysulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Barium Salts	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Sulfate	5780	1	1	1	1	1	1	X	X	X	X	X	X	X	X	1

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Compound Selection Guide

Compound Worksheet



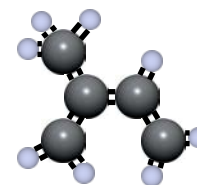
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Barium Sulfide	5780	1	1	1	1	1	1	2	4	1	1	1	1	1	1	1
Bayol 35	5747	1	1	4	1	2	2	4	1	2	4	4	4	1	4	1
Bayol D	5747	1	1	4	1	2	2	4	1	4	4	4	4	1	4	1
Beer	23744	1	1	1	1	1	1	1	4	2	1	1	1	1	1	1
Beet Sugar Liquids	3744	1	1	1	1	1	1	X	X	X	X	X	X	X	X	1
Beet Sugar Liquors	3744	1	1	1	1	1	2	1	4	4	1	1	1	1	1	1
Benzaldehyde	23711	4	4	1	4	2	4	4	4	4	1	4	1	3	2	1
Benzaldehyde Disulfonic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Benzamide	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzanthrone	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzene	9746	4	4	4	1	3	4	4	4	3	4	4	4	3	4	1
Benzene Hexachloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Benzenesulfonic Acid 10%	8782	4	4	3	1	2	2	4	4	4	4	4	1	2	4	1
Benzidine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzidine 3 Sulfonic Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzil	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzilic Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzine (Ligroin)	9746	1	1	4	1	2	2	4	1	2	4	4	3	1	4	1
Benzocatechol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzochloride	9746	4	4	1	1	1	4	4	4	X	2	4	4	1	X	1
Benzoic Acid	8782	3	3	3	1	2	4	4	3	4	4	4	4	2	3	1
Benzoin	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	X
Benzonitrile	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Benzophenone	9746	X	X	2	1	2	X	4	4	4	2	X	X	1	X	1
Benzoquinone	9746	X	X	2	1	2	X	4	4	4	2	X	X	X	X	1
Benzotrichloride	9746	4	4	1	1	1	4	X	X	X	X	X	X	X	X	1
Benzotrifluoride	9746	4	4	1	1	1	4	X	X	X	X	X	X	X	X	1
Benzoyl Chloride	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Benzoyl Peroxide	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Benzoylsulfonic Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzyl Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Benzyl Alcohol	9746	4	4	1	1	1	2	4	4	4	1	4	2	2	2	1
Benzyl Amine	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Benzyl Benzoate	9746	4	4	2	1	2	4	4	4	4	2	4	4	1	4	1
Benzyl Bromide	9746	4	4	4	1	2	4	4	4	4	4	4	4	1	4	1
Benzyl Butyl Phthalate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Benzyl Chloride	9746	4	4	4	1	1	4	4	4	4	4	4	4	2	4	1
Benzyl Phenol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Benzyl Salicylate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1

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Compound Worksheet



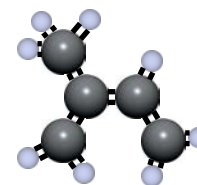
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Beryllium Chloride	5747	1	1	1	1	1	3	3	3	3	1	3	3	3	3	1
Beryllium Fluoride	5747	1	1	1	1	1	3	3	3	3	1	3	3	3	3	1
Beryllium Oxide	5747	1	1	1	1	1	3	3	3	3	1	3	3	3	3	1
Beryllium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Bismuth Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Bismuth Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Bismuth Oxychloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Black Liquor	23711	2	X	1	1	1	1	X	X	X	X	X	X	X	X	3
Black Point 77	5747	1	1	1	1	1	3	3	3	3	1	3	3	3	3	1
Blast Furnace Gas	19711	4	4	4	1	2	4	4	4	4	4	4	4	2	1	1
Bleach Liquor	23711	3	3	1	1	1	2	3	4	4	1	3	1	2	2	1
Bleach Solutions	23711	4	2	1	1	1	4	4	4	4	1	4	1	2	2	1
Borax	23711	2	1	1	1	1	1	2	2	1	1	2	1	2	2	1
Borax Solutions	23711	X	X	1	1	X	X	X	X	X	X	X	X	X	X	1
Bordeaux Mixture	23711	2	2	1	1	1	2	2	4	4	1	2	1	2	2	1
Boric Acid	5780	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1
Boric Oxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Borneol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Bornyl Acetate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Bornyl Chloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Bornyl Formate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Boron Fluids (HEF)	9746	2	2	4	1	2	4	4	4	4	4	4	4	2	4	1
Boron Hydride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Phosphate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Tribromide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Trichloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Trifluoride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Trioxide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brake Fluid DOT3 (Glycol Type)	23747	3	3	1	4	2	2	1	X	4	2	X	2	4	3	4
Bray GG-130	9746	2	2	4	1	2	4	4	2	4	4	4	4	2	4	1
Brayco® 719-R (VV-H-910)	23747	3	3	1	4	2	2	X	4	4	2	2	2	2	2	4
Brayco® 885 (MIL-L-6085A)	9746	2	2	4	1	2	4	4	2	1	4	4	4	2	4	1
Brayco® 910	23711	2	2	1	4	2	2	2	3	3	1	1	1	4	4	1
Bret 710	23711	2	2	1	4	2	2	2	3	3	1	1	1	4	4	4
Brine	5767	1	1	1	1	X	1	1	4	2	1	1	1	1	1	1
Brine (Seawater)	23711	1	1	3	1	1	4	X	X	X	X	X	X	X	X	X
Bromic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Bromine	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Bromine Pentafluoride	N/A	4	4	4	4	3	4	4	4	4	4	4	4	4	4	2

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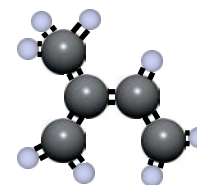
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Bromine Trifluoride	34860	4	4	4	4	3	4	4	4	4	4	4	4	4	4	1
Bromine Water	9746	4	3	2	1	3	4	4	4	4	3	4	1	2	4	1
Bromobenzene	9746	4	4	4	1	2	4	4	4	4	4	4	4	1	4	1
Bromobenzene Cyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Bromochloro Trifluoroethane (Halothane)	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Bromoform	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Bromomethane (Methyl Bromide)	9746	2	2	4	1	1	4	4	3	X	4	4	4	1	X	1
Bromotrifluoroethylene (BFE)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bromotrifluoromethane (F-13B1)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brucine Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Bunker Oil	5780	1	1	4	1	2	4	4	1	2	4	4	4	1	2	1
Bunker's "C" (Fuel Oil)	5780	1	1	4	1	X	2	4	1	2	4	4	2	1	4	1
Butadiene (Monomer)	9746	4	4	3	1	2	4	4	4	4	4	4	3	2	4	1
Butane	5780	1	1	4	1	2	1	4	1	1	4	4	2	1	4	1
Butane, 2, 2-Dimethyl	5747	1	1	4	1	2	2	3	1	4	4	4	2	3	4	1
Butane, 2, 3-Dimethyl	5747	1	1	4	1	2	2	3	1	4	4	4	2	3	4	1
Butanedial	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Butanol (Butyl Alcohol)	5747	1	1	2	1	1	1	1	4	4	2	1	1	1	2	1
Butene 2-Ethyl (1-Butene 2-Ethyl)	5747	1	1	4	1	1	4	4	1	4	4	4	4	3	4	1
Butter-Animal Fat	3741	1	1	1	1	1	2	4	1	1	2	4	2	1	2	1
Butyl Acetate or n-Butyl Acetate	34860	4	4	3	4	4	4	4	4	4	3	4	4	4	4	1
Butyl Acetyl Ricinoleate	23711	3	2	1	1	1	2	4	X	4	1	4	2	2	X	1
Butyl Acrylate	19711	4	4	4	4	4	4	4	4	X	4	4	4	4	2	1
Butyl Alcohol	5780	1	1	2	1	1	1	1	4	4	2	1	1	1	2	1
Butyl Alcohol (Secondary)	9746	2	2	2	1	1	2	2	4	4	2	2	2	2	2	1
Butyl Alcohol (Tertiary)	9746	2	2	2	1	1	2	2	4	4	2	2	2	2	2	1
Butyl Amine or N-Butyl Amine	23711	3	3	2	4	3	4	4	4	4	3	4	4	4	4	1
Butyl Benzoate	9746	4	4	2	1	X	4	2	4	4	2	3	4	1	2	1
Butyl Benzolate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Butyl Butyrate or n-Butyl Butyrate	23711	4	4	1	1	X	4	4	4	X	1	4	4	1	X	1
Butyl Carbitol	23711	4	4	1	3	2	3	4	4	X	1	4	2	4	4	1
Butyl Cellosolve	23711	3	3	2	4	2	3	4	4	4	2	4	4	4	X	1
Butyl Cellosolve Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Butyl Cellosolve Adipate	23711	4	4	2	2	2	4	4	4	4	2	4	4	2	2	1
Butyl Chloride	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Butyl Ether or n-Butyl Ether	34860	3	3	3	4	X	4	4	4	3	3	4	4	3	4	1
Butyl Glycolate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Butyl Lactate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Butyl Laurate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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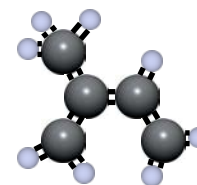
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Butyl Mercaptan (Tertiary)	9746	4	4	4	1	X	4	4	4	4	4	4	4	X	4	1
Butyl Methacrylate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Butyl Oleate	9746	4	4	2	1	2	4	4	X	X	2	4	4	2	X	1
Butyl Oxalate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Butyl Stearate	9746	2	2	3	1	1	4	4	X	X	3	4	4	2	X	1
Butylbenzoic Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Butylene	9746	2	4	4	1	2	3	4	4	4	4	4	4	2	4	1
Butyraldehyde	23711	4	4	2	4	2	3	4	4	4	2	4	4	4	4	1
Butyric Acid	8782	4	4	2	2	1	4	4	4	X	2	X	4	X	X	1
Butyric Anhydride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Butyrolactone	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Butyryl Chloride	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Cadmium Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cadmium Cyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cadmium Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cadmium Oxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cadmium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cadmium Sulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcine Liquors	3744	1	1	1	1	1	X	X	4	4	1	X	X	1	X	1
Calcium Acetate	23711	2	2	1	4	1	2	4	4	4	1	1	2	4	4	1
Calcium Arsenate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Benzoate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Calcium Bicarbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Bisulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Bisulfite	4751	4	1	4	1	1	1	2	4	1	4	4	1	1	1	1
Calcium Bromide	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Carbide	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Carbonate	5747	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1
Calcium Chlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Chloride	5780	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Chromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Cyanamide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Cyanide	5747	1	1	1	X	1	1	1	X	X	1	1	1	X	1	1
Calcium Fluoride	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Gluconate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Hydride	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Hydrosulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Hydroxide	5780	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1
Calcium Hypochlorite	23711	2	2	1	1	1	3	3	4	4	1	3	1	2	2	1

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Compound Selection Guide

Compound Worksheet



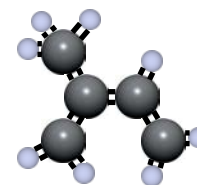
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Calcium Hypophosphite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Lactate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Naphthenate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Nitrate	5780	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1
Calcium Oxalate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Oxide	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Permanganate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Peroxide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Phenolsulfonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Phosphate	5747	1	1	1	1	1	2	1	1	1	1	1	1	X	1	1
Calcium Phosphate Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Propionate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Pyridine Sulfonate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Salts	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1
Calcium Silicate	5747	1	1	1	1	1	1	1	X	X	1	1	1	X	X	1
Calcium Stearate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Calcium Sulfamate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Calcium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Sulfide	5780	1	1	1	1	1	1	2	4	1	1	2	1	1	1	1
Calcium Sulfite	5747	1	1	1	1	1	1	2	4	1	1	2	1	1	1	1
Calcium Thiocyanate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Calcium Thiosulfate	23711	2	2	1	1	1	1	2	4	1	1	2	1	1	1	1
Calcium Tungstate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Caliche Liquors	3744	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1
Camphene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Camphor	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Camphoric Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Cane Sugar Liquors	3744	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Capric Acid	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Caproic Acid	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Caproic Aldehyde	23711	X	X	2	4	3	X	X	4	4	2	2	X	4	2	1
Caprolactam	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Capronaldehyde	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Carbamate	9746	3	3	2	1	1	2	4	4	4	2	4	2	1	X	1
Carbazole	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Carbitol	23711	2	2	2	2	1	2	2	4	4	2	2	2	2	2	1
Carbolic Acid (Phenol)	8782	4	4	2	1	1	3	4	4	3	2	4	4	1	4	1
Carbon Bisulfide	9746	3	4	4	1	1	4	4	3	X	4	4	4	1	4	1
Carbon Dioxide	5767	1	1	2	1	1	2	2	1	1	2	2	2	1	2	1

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Compound Selection Guide

Compound Worksheet



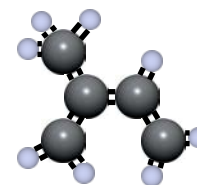
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Carbon Dioxide (RGD Use)	623906	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Carbon Disulfide	9746	4	4	4	1	2	4	4	3	X	4	4	4	1	4	1
Carbon Fluorides	9746	2	2	4	1	2	4	4	4	4	4	4	4	2	4	1
Carbon Monoxide	5780	1	1	1	1	1	2	2	X	1	1	2	2	2	1	1
Carbon Tetrabromide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Carbon Tetrachloride	9746	3	2	4	1	4	4	4	4	4	4	4	4	3	4	1
Carbon Tetrafluoride	9746	2	2	4	1	2	4	4	4	4	4	4	4	2	4	1
Carbonic Acid	23711	2	2	1	1	1	1	2	1	1	1	1	1	1	1	1
Casein	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Castor Oil	3744	1	1	2	1	1	1	1	1	1	2	1	2	1	1	1
Caustic Lime	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Caustic Potash	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Caustic Soda (Sodium Hydroxide)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cellosolve	23711	4	4	2	3	3	4	4	4	4	2	4	4	4	4	1
Cellosolve Butyl	23711	4	4	2	4	2	4	4	4	4	2	4	4	4	4	4
Cellosolve, Acetate	23711	4	4	2	4	2	4	4	4	4	2	4	4	4	4	1
Cellugard	5747	1	1	1	1	1	1	1	3	4	1	1	1	1	1	1
Cellulose Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cellulose Acetate Butyrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cellulose Ether	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cellulose Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cellulose Tripropionate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cellutherm™ 2505A	9746	2	2	4	1	2	4	4	2	4	4	4	4	2	4	1
Cerium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cerous Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cerous Fluoride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cerous Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cetane (Hexadecane)	5747	1	1	4	1	2	2	4	1	4	4	4	2	3	4	1
Cetyl Alcohol	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Chaulmoogric Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
China Wood Oil (Tung Oil)	5780	1	1	3	1	2	2	4	X	3	3	4	3	2	4	1
Chloral	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chloramine	23761	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Chloranthraquinone	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chlordane	9746	2	2	4	1	2	3	4	X	X	4	4	3	2	4	1
Chlorextol	9746	2	2	4	1	2	2	4	2	4	4	4	4	2	4	1
Chloric Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chlorinated Solvents, Dry	9746	4	4	4	1	2	4	4	4	4	4	4	4	1	4	1
Chlorinated Solvents, Wet	9746	4	4	4	1	2	4	4	4	4	4	4	4	1	4	1

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Compound Selection Guide

Compound Worksheet



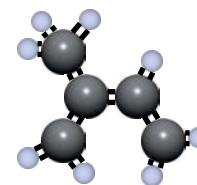
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Chlorine Dioxide	9746	4	4	3	1	2	4	4	4	4	3	4	3	2	X	2
Chlorine Dioxide (8% Cl as NaClO ₂)	8782	4	4	4	1	2	4	4	4	4	4	4	4	2	X	1
Chlorine Trifluoride	N/A	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2
Chlorine Water	8782	3	3	2	1	1	4	X	X	X	X	X	X	X	X	1
Chlorine, Dry	8782	4	3	4	1	2	3	4	4	4	4	4	2	1	4	1
Chlorine, Wet	34860	4	3	3	2	2	3	4	4	4	3	4	3	2	4	1
Chloro 1-Nitro Ethane	N/A	4	4	4	4	3	4	4	4	4	4	4	4	4	4	1
Chloro Oxyfluorides	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Chloro Xylenols	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chloroacetaldehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	2
Chloroacetic Acid	23711	4	4	1	4	2	4	4	4	4	2	4	1	4	X	1
Chloroacetone	23711	4	4	1	4	2	3	4	4	4	2	4	4	4	4	1
Chloroacetyl Chloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chloroamino Benzoic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chloroaniline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chlorobenzaldehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chlorobenzene	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Chlorobenzene (Mono)	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Chlorobenzene Chloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chlorobenzene Trifluoride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chlorobenzochloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chlorobenzotrifluoride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chlorobromo Methane	9746	4	4	2	1	1	4	4	4	4	2	4	4	2	4	1
Chlorobromopropane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chlorobutadiene	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Chlorobutane (Butyl Chloride)	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Chlorododecane	9746	4	4	4	1	2	4	4	4	4	4	4	4	1	4	1
Chloroethane	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Chloroethane Sulfonic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chloroethylbenzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chloroform	9746	4	4	4	1	2	4	4	4	4	4	4	4	4	4	1
Chlorohydrin	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chloronaphthalene or o-Chloronaphthalene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Chloronitrobenzene	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chlorophenol or o-Chlorophenol	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Chloropicrin	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chloroprene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chlorosilanes	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chlorosulfonic Acid	N/A	4	4	4	4	1	4	4	4	4	4	4	4	4	4	1

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Compound Worksheet



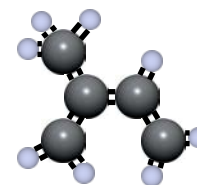
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Chlorotoluene	8782	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Chlorotoluene Sulfonic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Chlorotoluidine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chlorotrifluoroethylene (CTFE)	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Chlorox	9746	2	2	2	1	1	1	4	4	4	2	4	2	2	2	1
Chloroxylols	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cholesterol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Chrome Alum	5747	1	1	1	1	1	1	1	4	X	1	1	1	X	1	1
Chrome Plating Solutions	9746	4	4	2	1	1	4	4	4	4	2	4	4	2	2	1
Chromic Acid	9746	4	4	3	1	1	3	4	4	4	4	4	2	3	3	1
Chromic Chloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Fluorides	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Hydroxide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Nitrates	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Oxide	9746	4	4	2	1	1	4	X	X	X	X	X	X	X	X	1
Chromic Phosphate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Sulfate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromium Potassium Sulfate (Alum)	9746	2	X	2	1	2	X	X	X	X	X	X	X	X	X	1
Chromyl Chlorides	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cinnamic Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Cinnamic Alcohol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Cinnamic Aldehyde	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Circo Light Process Oil	5747	1	1	4	1	2	2	4	1	1	4	4	2	1	4	1
Citric Acid	4753	1	1	1	1	1	1	1	X	1	1	1	1	1	1	1
Clorox®	9746	2	X	2	1	X	X	X	X	X	X	X	X	X	X	1
Coal Tar	5780	1	X	4	1	X	2	4	1	3	4	4	4	1	4	1
Cobalt Chloride	5780	1	1	1	1	1	1	1	4	4	1	1	1	1	2	1
Cobalt Chloride, 2N	5780	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Cobaltous Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Cobaltous Bromide	5747	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Cobaltous Linoleate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cobaltous Naphthenate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cobaltous Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Coconut Oil	3744	1	1	3	1	2	2	4	1	2	3	4	3	1	1	1
Cod Liver Oil	3744	1	1	1	1	1	2	4	1	1	1	4	2	1	2	1
Codeine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Coffee	3744	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Coke Oven Gas	9746	4	4	4	1	2	4	4	4	4	4	4	3	2	2	1
Coliche Liquors	4753	2	2	2	X	2	1	2	X	X	2	1	X	X	X	X

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Compound Selection Guide

Compound Worksheet



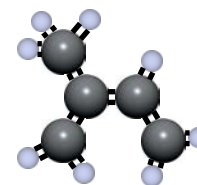
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Convelex 10	N/A	4	4	X	X	X	4	4	X	2	4	4	4	X	4	X
Coolanol™ 20 25R 35R 40& 45A (Mobil)	9746	1	1	3	1	2	2	4	4	1	4	4	2	1	4	1
Copper Acetate	23711	2	2	1	4	2	2	4	4	4	1	1	2	4	4	1
Copper Ammonium Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Copper Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Copper Chloride	5780	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1
Copper Cyanide	5780	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Copper Gluconate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Copper Naphthenate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Copper Nitrate	9746	2	X	2	1	2	X	X	X	X	X	X	X	X	X	1
Copper Oxide	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Copper Salts	5747	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Copper Sulfate	5780	1	1	1	1	1	1	2	4	1	2	2	1	1	1	1
Copper Sulfate 10%	5780	1	1	1	1	1	1	2	4	2	2	2	1	1	1	1
Copper Sulfate 50%	5780	1	1	1	1	1	1	2	4	3	2	1	1	1	1	1
Corn Oil	3744	1	1	3	1	2	3	4	1	1	3	4	2	1	1	1
Cottonseed Oil	5780	1	1	2	1	1	2	4	1	1	3	4	2	1	1	1
Creosote, Coal Tar	5780	1	1	4	1	2	2	4	1	3	4	4	4	1	4	1
Creosote, Wood	5780	1	1	4	1	2	2	4	1	3	4	4	4	1	4	1
Cresol (Methyl Phenol)	9746	4	X	4	1	1	3	4	4	4	4	4	4	2	4	1
Cresols	8782	4	4	4	2	2	4	4	4	X	4	4	4	X	4	X
Cresylic Acid	8782	4	1	4	1	1	3	4	4	4	4	4	4	2	4	1
Crotonaldehyde	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Crotonic Acid	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Crude Oil	9746	2	2	4	1	2	4	4	1	X	4	4	4	2	4	1
Cumaldehyde	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Cumene	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Cumene Hydroperoxide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cupric Sulfate	9746	2	X	2	1	2	X	X	X	X	X	X	X	X	X	1
Cutting Oil	5747	1	1	4	1	2	2	4	1	1	4	4	2	1	4	1
Cyanamide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanides	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanogen Chloride	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Cyanogen Gas	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanohydrin	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanuric Chloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyclohexane	5780	1	1	4	1	2	3	4	1	1	4	4	4	2	4	1
Cyclohexanol	4751	3	1	3	1	2	1	4	X	X	4	4	2	1	4	1
Cyclohexanone	23711	4	4	2	4	2	4	4	4	4	2	4	4	4	4	1

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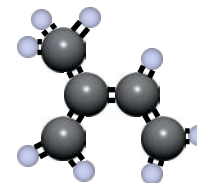
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Cyclohexene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Cyclohexylamine	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Cyclohexylamine Carbonate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyclohexylamine Laurate	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Cyclopentadiene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Cyclopentane	5747	1	1	4	1	2	3	4	2	1	4	4	4	1	4	1
Cyclopolyolefins	9746	1	1	4	1	2	3	4	2	1	4	4	4	1	4	1
Cymene or p-Cymene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
DDT (Dichlorodiphenyltrichloroethane)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
DI Water	23711	1	1	1	1	1	1	1	4	3	1	1	1	1	1	1
D-Limonene Solvent	9746	2	2	4	1	2	4	4	3	2	4	4	4	4	1	X
Decalin	9746	4	4	4	1	2	4	4	X	X	4	4	4	1	4	1
Decane	5780	1	1	4	1	2	4	4	1	2	4	4	3	1	2	1
Delco® Brake Fluid	23747	3	3	1	4	2	2	1	X	X	2	X	2	4	3	1
Denatured Alcohol	23711	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Detergent, Water Solution	23711	1	1	1	1	1	2	2	4	4	1	2	2	1	1	1
Developing Fluids (Photo)	3744	1	1	2	1	1	1	2	X	X	2	1	1	1	1	1
Dexron®	3720	1	1	4	1	2	2	4	1	2	4	4	4	2	4	1
Dextrin	3744	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Dextro Lactic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dextron	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Dextrose	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Di-Tert-Butyl Peroxide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Di-ester Lubricant MIL-L-7808	9746	2	2	4	1	2	4	4	2	4	4	4	4	2	4	X
Di-ester Synthetic Lubricants	9746	2	2	4	1	2	4	4	2	4	4	4	4	2	4	X
Diacetone	23711	4	4	1	4	2	4	4	4	4	1	4	4	4	4	1
Diacetone Alcohol	23711	4	4	1	4	2	2	4	4	4	1	4	2	4	2	1
Dialkyl Sulfates	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Diallyl Ether	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Diallyl Phthalate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Diamylamine	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Diazinon	9746	3	3	4	2	2	3	4	X	X	4	4	3	2	4	1
Dibenzyl (sym-Diphenylethane)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dibenzyl Ether	N/A	4	4	2	4	2	3	4	X	2	2	4	4	X	X	1
Dibenzyl Sebacate	9746	4	4	2	2	2	4	4	4	2	2	4	4	3	3	1
Diborane	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dibromoethane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dibromoethyl Benzene	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Dibutyl Cellosolve Adipate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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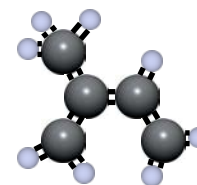
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Dibutyl Ether	N/A	4	4	3	3	3	3	4	3	2	3	4	4	3	4	1
Dibutyl Methyleneidithio Glycolate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dibutyl Phthalate	23711	4	4	2	3	3	4	4	4	3	3	4	4	3	2	1
Dibutyl Sebacate	23711	4	4	2	2	2	4	4	4	4	2	4	4	2	2	1
Dibutyl Thioglycolate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dibutyl Thiourea	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dibutylamine	23711	4	4	1	4	4	3	4	4	4	4	4	4	4	3	1
Dichloroacetic Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	2
Dichloroaniline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dichlorobenzene or o-Dichlorobenzene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Dichlorobenzene or p-Dichlorobenzene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Dichlorobutane	9746	2	2	4	1	2	4	4	4	4	4	4	4	2	4	1
Dichlorobutene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichlorodiphenyl-Dichloroethane (DDD)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichloroethane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichloroethylene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichlorohydrin	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dichloroisopropyl Ether	N/A	4	4	3	3	3	4	4	3	2	4	4	4	3	4	1
Dichloromethane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichlorophenol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichlorophenoxyacetic Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichloropropane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichloropropene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dichlorosilane	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dicyclohexylamine	34860	3	3	4	4	4	4	4	4	4	4	4	4	4	X	1
Dicyclohexylammonium Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dieldrin	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Diesel Exhaust Fluid (DEF)	23747	X	X	1	X	X	X	X	X	X	X	X	X	X	X	X
Diesel Oil	5747	1	1	4	1	2	3	4	1	3	4	4	3	1	4	1
Diethanolamine (DEA)	23711	2	X	2	4	X	2	2	4	3	2	2	3	4	2	1
Diethyl Benzene	9746	4	X	4	1	X	4	4	X	4	4	4	4	3	4	1
Diethyl Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Diethyl Ether	N/A	4	4	4	4	4	3	4	3	1	4	4	3	3	4	1
Diethyl Phthalate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Diethyl Sebacate	9746	2	2	2	2	2	4	4	4	4	2	4	4	2	2	1
Diethyl Sulfate	23711	4	X	1	3	2	4	X	X	X	X	X	X	X	2	1
Diethylamine	23711	2	X	1	4	X	1	1	4	4	1	1	1	1	2	1
Diethylaniline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Diethylene Glycol	23711	1	1	1	1	1	1	1	2	4	1	1	1	1	2	1

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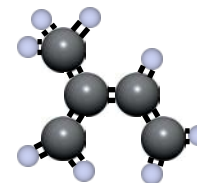
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Diethylenetriamine	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Difluorodibromomethane	23711	4	4	2	X	2	4	4	4	4	2	4	4	X	4	1
Difluoroethane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Difluoromonochloroethane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Diglycol Chloroformate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Diglycolic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dihydroxydiphenylsulfone	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Diisobutyl Ketone	23711	X	X	1	X	1	X	X	X	X	1	X	X	X	X	1
Diisobutylcarbinol	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Diisobutylene	9746	2	1	4	1	2	4	4	4	4	4	4	4	3	4	1
Diisooctyl Sebacate	9746	3	3	3	2	2	4	4	4	4	4	4	4	3	3	1
Diisopropyl Ether (DIPE)	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Diisopropyl Ketone	23711	4	4	1	4	2	4	4	4	4	1	4	4	4	4	1
Diisopropylbenzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Diisopropylidene Acetone	34860	4	X	3	4	X	4	4	4	4	4	4	4	4	4	1
Dimethyl Acetamide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dimethyl Aniline (Xylidine)	23711	3	X	2	4	X	3	3	4	4	4	4	4	4	4	1
Dimethyl Disulfide (DMDS)	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Dimethyl Ether	5780	1	1	4	4	4	3	4	4	X	4	4	3	1	1	1
Dimethyl Formaldehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dimethyl Formamide (DMF)	23711	2	2	2	4	1	3	4	4	4	2	4	4	4	2	1
Dimethyl Hydrazine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dimethyl Phenyl Carbinol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dimethyl Phenyl Methanol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dimethyl Phthalate	9746	4	4	2	2	2	4	4	4	X	2	4	4	2	X	1
Dimethyl Sulfoxide (DMSO)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Dimethyl Terephthalate (DMT)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dimethylamine (DMA)	23711	2	2	1	4	2	2	2	4	3	2	2	3	4	2	2
Dinitrochlorobenzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dinitrogen Tetroxide	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Dinitrotoluene (DNT)	34860	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1
Diocetyl Phthalate	9746	3	4	2	2	2	4	4	4	4	2	4	4	2	3	1
Diocetyl Sebacate	23711	4	4	2	2	1	4	4	4	2	2	4	4	3	3	1
Diocetylamine	5767	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Dioxane	23711	4	4	2	4	4	4	4	4	4	2	4	4	3	4	1
Dioxolane	23711	4	4	2	4	3	4	4	4	4	3	4	4	4	4	1
Dipentene	5780	2	2	4	1	2	4	4	4	4	4	4	4	3	4	1
Diphenyl	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	4	1
Diphenyl Oxides	9746	4	4	4	1	2	4	4	4	4	4	4	4	2	3	1

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Compound Worksheet



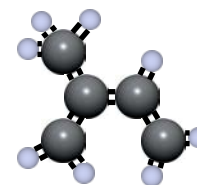
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU /EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Diphenylamine (DPA)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Diphenylene Oxide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Diphenylpropane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Disilane	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Dodecylbenzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Dow® Chemical 50-4	23711	X	X	1	4	2	2	1	X	X	2	X	2	4	X	2
Dow® Chemical ET378	N/A	4	4	X	X	X	4	4	3	2	4	4	4	X	4	2
Dow® Chemical ET588	23711	3	3	1	4	2	2	1	X	X	2	X	2	4	X	2
Dow Corning® -11	23711	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1
Dow Corning® -1265	23711	2	2	1	1	1	1	1	1	1	1	1	1	3	1	1
Dow Corning® -200	23711	2	2	1	1	1	1	1	1	1	1	1	1	2	3	1
Dow Corning® -3	23711	2	2	1	1	X	1	1	1	1	1	1	1	1	2	1
Dow Corning® -33	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® -4	23711	2	2	1	1	X	1	1	1	1	1	1	1	1	2	1
Dow Corning® -44	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® -5	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® -510	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® -55	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® -550	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® -704	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® -705	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® -710	23711	2	2	1	1	X	1	1	1	1	1	1	1	2	3	1
Dow Corning® 1208, 4050, 6620, F-60	3744	1	1	1	1	1	1	X	X	X	X	X	X	X	X	X
Dow Corning® 220	3744	1	1	1	1	1	1	X	X	X	X	X	X	X	X	X
Dow Corning® F-61	3744	1	1	1	1	1	1	X	X	X	X	X	X	X	X	1
Dow® Guard	3744	1	1	1	1	X	1	1	3	3	1	1	1	1	1	1
Dowtherm™ 209	23711	3	3	1	4	X	2	X	X	X	2	X	X	3	3	1
Dowtherm™ A	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Dowtherm™ E	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Drinking Water	23761	1	1	1	1	1	1	1	4	3	1	1	1	1	1	1
Dry Cleaning Fluids	9746	3	3	4	1	X	4	4	4	4	4	4	4	2	4	1
Elco 28-EP lubricant	3720	1	1	4	1	X	3	4	1	1	4	4	4	1	2	1
Epichlorohydrin	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	4	1
Epoxy Resins	23711	X	X	1	4	X	1	X	X	X	1	X	X	X	X	1
Erucic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Esam-6 Fluid	23711	X	X	1	4	X	2	1	X	X	2	X	2	4	X	1
Esso® XP90-EP lubricant	55715	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Esstic 42, 43	5747	1	1	4	1	X	2	4	1	2	4	4	4	1	4	1
Ethane	5747	1	1	4	1	X	2	4	1	3	4	4	2	2	4	1

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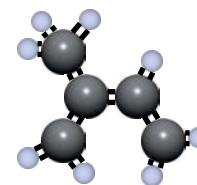
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Ethanol	23711	1	1	1	2	1	1	1	4	4	1	1	1	1	1	1
Ethanol Amine	23711	2	2	1	4	X	2	2	4	3	2	2	3	4	2	1
Ethers	34860	4	4	3	3	X	4	4	3	2	4	4	4	3	4	1
Ethoxyethyl Acetate (EGMEEA)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ethyl Acetate-Organic Ester	23711	4	4	2	4	4	3	4	4	4	2	4	4	4	2	1
Ethyl Acetoacetate	23711	4	4	2	4	X	3	3	4	4	2	3	4	4	2	1
Ethyl Acrylate	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	2	1
Ethyl Alcohol	23711	1	1	1	2	1	1	1	4	4	1	1	1	1	1	1
Ethyl Ammonium Dichloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ethyl Benzene	9746	4	4	4	1	2	4	4	4	4	4	4	4	1	4	1
Ethyl Benzoate	23711	4	4	1	1	3	4	1	4	4	1	1	4	1	4	1
Ethyl Bromide	9746	2	2	4	1	X	4	X	X	X	4	4	4	1	X	1
Ethyl Cellosolve	34860	4	4	4	4	X	4	4	4	4	4	4	4	4	4	1
Ethyl Cellulose	5780	2	2	2	4	X	2	2	4	2	2	2	2	4	3	1
Ethyl Chloride	5780	1	1	3	1	X	4	4	4	2	4	4	4	1	4	1
Ethyl Chlorocarbonate	9746	4	4	2	1	X	4	4	4	4	3	4	4	2	4	1
Ethyl Chloroformate	23711	4	4	2	4	X	4	4	4	4	3	4	4	4	4	1
Ethyl Ether	34860	3	3	3	4	X	3	4	4	3	3	4	4	3	4	1
Ethyl Formate	9746	4	4	2	1	X	2	4	X	X	2	4	2	1	X	1
Ethyl Hexanol	5747	1	1	1	1	X	1	1	4	4	1	1	1	1	2	1
Ethyl Lactate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ethyl Mercaptan	9746	4	4	3	2	X	3	4	X	X	4	4	2	X	3	1
Ethyl Nitrite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ethyl Oxalate	23711	4	4	1	1	X	3	1	4	1	1	1	4	2	4	1
Ethyl Pentachlorobenzene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Ethyl Pyridine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Ethyl Silicate	23711	1	1	1	1	X	1	2	X	X	1	2	2	1	X	1
Ethyl Stearate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Ethyl Sulfate	23711	X	X	1	4	1	X	X	X	X	X	X	X	X	X	1
Ethyl Tertiary Butyl Ether	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Ethyl Valerate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Ethylacrylic Acid	23711	4	4	2	X	X	2	4	4	4	2	4	4	4	4	X
Ethylamine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ethylcyclopentane	5747	1	1	4	1	X	3	4	2	1	4	4	4	1	4	X
Ethylene	5780	1	2	2	1	X	3	3	4	4	2	3	4	1	4	1
Ethylene Chloride	9746	4	4	3	2	X	4	4	4	4	3	4	4	3	4	1
Ethylene Chlorohydrin	9746	4	4	2	1	1	2	2	4	4	2	2	2	2	3	1
Ethylene Cyanohydrin	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Ethylene Diamine	23711	1	1	1	4	X	1	2	4	4	1	1	2	4	1	1

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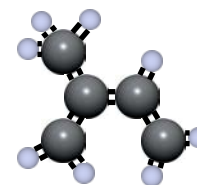
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Ethylene Dibromide	9746	4	4	3	1	X	4	4	4	4	3	4	4	3	4	1
Ethylene Dichloride	9746	4	4	3	1	2	4	4	4	4	3	4	4	3	4	1
Ethylene Glycol	23711	1	1	1	1	X	1	1	3	4	1	1	1	1	1	1
Ethylene Hydrochloride	9746	4	4	3	1	X	4	4	4	4	3	4	4	3	4	1
Ethylene Oxide	34744	4	4	3	4	X	4	4	4	4	3	4	4	4	4	1
Ethylene Oxide, (12%) and Freon 12 (80%)	N/A	3	3	2	4	X	4	4	4	4	2	4	4	4	4	4
Ethylene Trichloride	9746	4	4	3	1	X	4	4	4	4	3	4	4	3	4	1
Ethylmorpholene Stannous Octotatate (50/50)	23711	4	4	2	4	X	X	4	X	X	2	X	X	X	X	1
Ethylmorpholine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Ethylsulfuric Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
F-60 Fluid (Dow Corning®)	23711	1	1	1	1	X	1	1	1	1	1	1	1	1	4	X
F-61 Fluid (Dow Corning®)	23711	1	1	1	1	X	1	1	1	1	1	1	1	1	4	X
FC-43 Heptacosofluorotri-butylamine	5747	1	1	1	1	X	1	4	X	X	1	X	1	1	1	1
FC75 & FC77 (Fluorocarbon)	23711	1	1	1	2	X	1	4	X	X	1	X	1	2	1	4
Fatty Acids	9746	2	2	3	1	X	2	4	X	X	3	4	2	X	3	1
Ferric Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferric Ammonium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferric Chloride	5780	1	1	1	1	X	1	1	1	1	1	1	1	1	2	1
Ferric Ferrocyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferric Hydroxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferric Nitrate	5780	1	1	1	1	X	1	1	1	1	1	1	1	1	2	1
Ferric Persulfate	5747	1	1	1	1	1	1	X	X	X	X	X	X	X	X	1
Ferric Sulfate	5780	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ferrous Ammonium Citrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferrous Ammonium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferrous Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferrous Chloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ferrous Iodide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferrous Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ferrous Tartrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Fish Oil	8748	2	2	4	1	X	4	4	4	3	4	4	4	1	1	1
Fisher Reagent	23711	X	X	2	X	X	X	X	X	X	X	X	X	X	X	X
Fluorine (Gas)	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Fluorine (Liquid)	8782	4	4	4	2	X	X	X	X	X	X	X	X	X	X	2
Fluorinert	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluorobenzene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Fluoroboric Acid	5767	1	X	1	X	X	1	1	X	X	1	1	1	X	X	1
Fluorocarbon Oils	23711	X	X	1	X	X	2	2	X	X	1	2	X	X	X	2
Fluoroform (Trifluoromethane)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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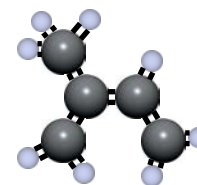
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Fluorolube®	23711	1	1	1	2	X	2	3	X	X	1	2	1	2	1	1
Fluorophosphoric Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluorosilicic Acid	5780	1	1	2	1	1	2	3	X	X	2	2	1	4	4	1
Fluorosulfonic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Formaldehyde	23711	3	2	1	4	1	2	2	4	4	1	2	1	4	2	1
Formamide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Formic Acid	23711	2	X	1	3	2	1	1	X	3	1	2	1	3	2	1
Freon, 11	9746	2	2	4	2	X	3	4	4	4	4	4	1	2	4	2
Freon, 112	9746	2	2	4	2	X	3	3	X	X	4	4	2	X	4	2
Freon, 113	4751	1	1	3	3	X	1	2	X	2	4	3	1	4	4	2
Freon, 113 + High and Low Aniline Oil	55715	1	X	X	X	4	X	X	X	X	X	X	X	X	X	X
Freon, 114	4751	1	1	1	2	X	1	1	X	1	1	1	1	2	4	2
Freon, 114B2	4751	2	2	4	2	X	3	3	X	X	3	4	1	X	4	2
Freon, 115, 116	4751	1	1	1	2	X	1	1	X	X	1	1	1	X	X	2
Freon, 12	4751	1	1	2	2	X	1	1	1	1	2	2	1	3	4	2
Freon, 12 and ASTM Oil #2 (50/50)	9848	2	2	4	1	X	3	4	X	X	4	4	2	2	4	2
Freon, 12 and Suniso 4G (50/50)	9848	2	2	4	1	X	3	4	X	X	4	4	2	2	4	1
Freon, 123 (Dichlorotrifluoroethane)	4751	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Freon, 124 (Chlorotetrafluoroethane)	4751	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Freon, 125 (Pentafluoroethane)	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Freon, 13	4751	1	1	1	2	X	1	1	X	X	1	1	1	4	4	2
Freon, 134a (Tetrafluoroethane)	55834	X	1	1	X	X	1	X	X	X	X	X	X	X	X	1
Freon, 13B1	4751	1	1	1	2	X	1	1	X	1	1	1	1	2	4	2
Freon, 14	4751	1	1	1	1	X	1	1	X	1	1	1	1	X	4	1
Freon, 141b (Dichlorofluoroethane)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Freon, 142b	4751	1	2	2	2	4	1	2	X	X	1	2	1	X	X	2
Freon, 152a (Difluoroethane)	4751	1	X	1	4	X	1	1	X	X	1	1	3	X	X	2
Freon, 21	34744	4	4	4	4	X	4	4	X	X	4	4	4	X	4	1
Freon, 218	4751	1	X	1	2	X	1	1	X	X	1	1	1	X	X	2
Freon, 22	4751	4	4	3	4	X	1	1	2	4	3	1	1	4	4	1
Freon, 22 and ASTM Oil #2 (50/50)	4751	4	4	4	2	X	2	4	2	X	4	4	X	2	4	1
Freon, 23 (Fluoroform)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Freon, 31	4751	4	4	1	4	X	2	2	X	X	2	2	2	X	X	2
Freon, 32	4751	1	1	1	4	X	1	1	X	X	1	1	1	X	X	2
Freon, 502	4751	2	2	1	4	X	1	1	X	X	1	1	X	X	X	2
Freon, BF	9848	2	2	4	2	X	3	4	X	X	4	4	2	X	4	2
Freon, C316	4751	1	X	1	2	X	1	1	X	X	X	1	1	1	X	2
Freon, C318	4751	1	1	1	2	X	1	1	X	X	1	1	1	X	X	2
Freon, K-142b	4751	1	1	1	4	X	1	1	X	X	1	2	1	X	X	4

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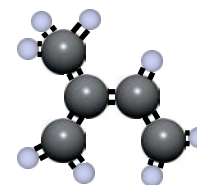
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Freon, K-152a	4751	1	1	1	4	X	1	1	X	X	1	1	4	X	X	4
Freon, MF	5747	1	2	4	2	X	3	4	X	3	4	4	2	X	4	2
Freon, PCA	4751	1	1	4	2	X	1	2	X	1	4	4	1	X	4	3
Freon, T-P35	4751	1	X	1	2	X	1	1	X	1	1	1	1	X	1	2
Freon, T-WD602	9848	2	X	2	2	X	2	3	X	1	2	4	2	X	4	2
Freon, TA	5747	1	X	2	4	X	2	3	X	1	2	3	1	X	3	2
Freon, TC	5747	1	X	2	2	X	1	3	X	1	2	4	1	X	4	2
Freon, TF	5747	1	1	4	2	4	1	3	X	1	4	4	1	X	4	2
Freon, TMC	9848	2	X	3	2	X	3	4	X	2	3	4	2	X	3	2
Fuel Oil, #6	9848	2	2	4	1	X	4	4	1	2	4	4	4	1	1	1
Fuel Oil, #1 and #2	5747	1	1	4	1	X	2	4	1	2	4	4	2	1	4	1
Fuel Oil, Acidic	5747	1	1	4	1	X	2	4	1	2	4	4	4	1	1	1
Fumaric Acid	5780	1	1	2	1	X	2	3	4	X	2	3	2	1	2	1
Fuming Sulphuric Acid (20/25% Oleum)	8782	4	4	4	1	X	4	4	4	4	4	4	4	X	4	X
Furaldehyde	23711	4	4	2	4	4	4	X	X	X	X	X	X	X	X	1
Furan (Furfuran)	34860	4	4	3	4	X	4	4	4	X	4	4	4	X	X	1
Furfural (Furfuraldehyde)	23711	4	4	2	4	2	3	4	4	3	2	4	3	X	4	1
Furfuraldehyde	23711	4	4	2	4	X	4	4	4	3	2	4	3	X	4	X
Furfuryl Alcohol	23711	4	4	2	X	X	4	4	4	4	2	4	4	4	4	1
Furoic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Furyl Carbinol	23711	4	4	2	X	X	4	4	4	4	2	4	4	4	4	1
Fyrquel® 150 220 300 550	23811	4	4	1	1	X	4	4	4	4	1	4	4	2	1	1
Fyrquel® 90, 100, 500	23811	4	4	1	1	1	X	X	X	X	X	X	X	X	X	1
Fyrquel® A60	34860	4	4	2	4	2	4	X	X	X	X	X	X	X	X	1
Gallic Acid	8782	2	2	2	1	X	2	2	4	4	2	1	2	1	X	1
Gasahol	8780	3	4	4	1	4	4	4	4	4	4	4	4	4	1	1
Gasoline	9746	2	1	4	1	2	3	4	4	2	4	4	3	1	4	1
Gelatin	3744	1	1	1	1	X	1	1	4	4	1	1	1	1	1	1
Germane (Germanium Tetrahydride)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Girling Brake Fluid	23747	3	3	1	4	X	2	1	X	X	2	X	2	4	X	4
Glauber's Salt	9746	4	4	2	1	X	2	4	4	X	2	2	2	1	X	1
Gluconic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Glucose	3744	1	1	1	1	X	1	1	X	4	1	1	1	1	1	1
Glue	5780	1	X	1	1	X	1	2	X	1	2	2	1	1	1	1
Glutamic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Glycerine (Glycerol)	3744	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1
Glycerol Dichlorohydrin	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Glycerol Monochlorohydrin	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Glycerol Triacetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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Compound Selection Guide

Compound Worksheet



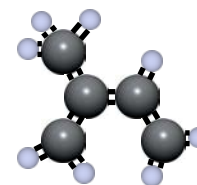
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Glycerophosphoric Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Glyceryl Phosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Glycidol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Glycol Monoether	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Glycolic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Glycols	23711	1	1	1	1	X	1	1	4	4	1	1	1	1	1	1
Glyoxylic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Grease Petroleum Base	3720	1	1	4	1	X	3	4	1	1	4	4	4	1	4	1
Green Sulfate Liquor	23711	2	2	1	1	X	2	2	2	1	1	2	2	2	1	1
HEF-2 (High Energy Fuel)	9746	2	2	4	1	X	4	4	4	4	4	4	4	2	4	1
Halothane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	2
Halowax Oil	9746	4	4	4	1	X	4	4	X	X	4	4	4	1	4	1
Hannifin Lube A	5747	1	1	4	1	X	1	2	1	1	4	4	1	1	2	1
Heavy Water	3744	1	1	1	X	X	2	1	4	4	1	1	1	1	1	1
Helium	13766	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1
Heptachlor	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Heptachlorobutene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Heptaldehyde (Heptanal)	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Heptane or n-Heptane	5747	1	1	4	1	X	2	4	1	2	4	4	2	3	4	1
Heptanoic Acid	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Hexachloroacetone	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Hexachlorobutadiene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Hexachlorobutene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Hexachloroethane	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Hexaethyl Tetraphosphate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexafluoroethane (F-116)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexafluoroxylene	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexaldehyde or n-Hexaldehyde	23711	4	4	1	4	X	1	4	X	2	2	4	3	4	2	1
Hexamethyldisilazane	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexamethylene (Cyclohexane)	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Hexamethylene Diammonium Adipate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Hexamethylenediamine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	2
Hexamethylenetetramine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	2
Hexane or n-Hexane	9746	1	1	4	1	X	2	4	1	2	4	4	2	1	4	1
Hexene-1 or n-Hexene-1	9746	2	2	4	1	X	2	4	1	2	4	4	2	1	4	1
Hexone (Methyl Isobutyl Ketone)	23711	4	4	2	4	4	4	4	4	4	3	4	4	4	4	1
Hexyl Acetate	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Hexyl Alcohol	5780	1	1	3	1	X	2	2	4	4	3	2	2	2	2	1
Hexylene Glycol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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Compound Worksheet



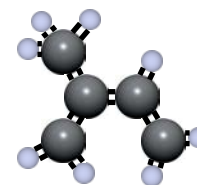
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Hexylresorcinol	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
HiLo MS #1	23711	4	4	1	4	X	4	4	4	4	2	4	4	3	3	4
High Viscosity Lubricant, H2	3720	1	1	1	1	X	2	1	4	4	1	X	X	2	1	1
High Viscosity Lubricant, U4	3720	1	1	1	1	X	2	1	4	4	1	X	X	2	1	1
Houghto-Safe® 1010 phosphate ester	23711	4	4	1	1	X	4	4	4	X	1	4	4	2	3	1
Houghto-Safe® 1055 phosphate ester	23711	4	4	1	1	X	4	4	4	X	1	4	4	2	3	1
Houghto-Safe® 1120 phosphate ester	9746	4	4	2	1	X	4	4	4	4	1	4	4	2	3	1
Houghto-Safe® 271 (Water & Glycol Base)	5747	1	1	1	2	X	2	1	4	4	2	X	X	2	2	1
Houghto-Safe® 416 & 500 Series	5747	1	1	1	X	X	X	X	X	X	X	X	X	X	X	X
Houghto-Safe® 5040 (Water/Oil emulsion)	5747	1	1	4	1	X	2	4	4	4	4	4	4	2	3	1
Houghto-Safe® 620 Water/Glycol	5747	1	1	1	2	X	2	1	4	4	2	X	X	2	2	1
Hydraulic Oil (Petroleum Base, Industrial)	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	3	1
Hydraulic Oils (Synthetic Base)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Hydrazine	23711	2	4	1	4	X	2	1	X	4	1	1	2	4	3	1
Hydrazine (Anhydrous)	23711	4	4	2	4	2	2	1	4	4	2	4	2	4	X	1
Hydrazine Dihydrochloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Hydrazine Hydrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Hydriodic Acid	8782	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Hydro-Drive® MIH-10 (Petroleum Base)	3720	1	1	4	1	X	2	4	1	2	4	4	4	1	2	1
Hydro-Drive® MIH-50 (Petroleum Base)	3720	1	1	4	1	X	2	4	1	2	4	4	4	1	2	1
Hydroabietyl Alcohol	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrobromic Acid	23711	4	4	1	1	X	4	4	4	4	1	1	1	3	4	1
Hydrobromic Acid 40%	23711	4	X	1	1	X	2	4	4	4	1	1	1	3	4	1
Hydrocarbons, Saturated	3720	1	1	4	1	X	2	4	1	2	4	4	3	1	4	1
Hydrochloric Acid (cold) 37%	9848	3	X	1	1	1	2	2	4	4	1	2	1	2	3	1
Hydrochloric Acid (hot) 37%	9848	4	X	3	2	2	4	4	4	4	3	4	2	3	4	1
Hydrochloric Acid, 3 Molar to 158°F	9848	2	2	1	1	X	2	3	3	4	1	3	1	3	4	1
Hydrochloric Acid, Concentrated, Room Temp	8782	2	2	2	1	X	X	X	X	X	X	X	X	X	X	1
Hydrochloric Acid, Concentrated to 158°F	8782	4	4	4	1	X	4	4	4	4	4	4	X	4	4	1
Hydrocyanic Acid	23711	2	2	1	1	X	2	2	4	X	1	2	1	2	3	1
Hydrofluoric Acid (Anhydrous)	34860	4	X	3	4	X	4	4	4	4	3	4	1	4	4	1
Hydrofluoric Acid (conc.) Cold	34860	4	X	3	1	1	4	4	4	3	3	4	1	4	4	1
Hydrofluoric Acid (conc.) Hot	34860	4	X	4	4	X	4	4	4	4	4	4	3	4	4	1
Hydrofluorosilicic Acid	23711	1	1	2	1	X	2	3	X	X	2	2	1	4	4	1
Hydrogen Bromide (Anhydrous)	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Hydrogen Chloride (Anhydrous)	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Hydrogen Chloride gas	23711	4	X	1	1	1	2	X	X	X	X	X	X	X	X	1
Hydrogen Cyanide	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1

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Compound Worksheet



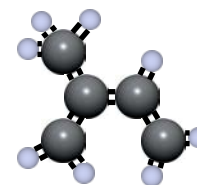
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Hydrogen Fluoride	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Hydrogen Fluoride (Anhydrous)	23711	4	4	1	4	2	X	4	4	X	1	4	X	4	X	2
Hydrogen Gas, Cold	23711	1	X	1	1	X	1	1	2	1	1	2	1	3	3	1
Hydrogen Gas, Hot	23711	1	X	1	1	X	1	2	2	1	1	2	1	3	3	1
Hydrogen Iodide (Anhydrous)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrogen Peroxide	9746	2	2	1	1	X	1	2	4	X	1	2	2	1	1	1
Hydrogen Peroxide 90%	9746	4	2	2	2	X	4	4	4	X	3	4	1	2	2	1
Hydrogen Selenide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrogen Sulfide Dry Cold	23711	1	1	1	4	X	1	1	4	X	1	1	1	3	3	1
Hydrogen Sulfide Dry Hot	23711	4	4	1	4	X	2	4	4	X	1	4	3	3	3	1
Hydrogen Sulfide Wet Cold	23711	4	1	1	4	X	2	4	4	X	1	4	2	3	3	1
Hydrogen Sulfide Wet Hot	23711	4	4	1	4	X	3	4	4	X	1	4	3	3	3	1
Hydrolube®-Water/Ethylene Glycol	5747	1	1	1	1	X	2	1	4	4	2	X	X	2	2	1
Hydroxycitronellal	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Hydroquinol	9746	4	4	4	1	X	4	X	X	X	X	X	X	X	X	2
Hydroquinone	9746	3	4	2	2	X	4	4	4	X	2	2	4	2	X	1
Hydroxyacetic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Hydne	23711	2	2	1	4	X	2	2	4	X	2	2	X	4	4	2
Hyjet™	23711	4	4	1	4	2	4	X	X	X	X	X	X	X	X	1
Hyjet™ IV and IVA	23711	4	4	1	4	X	4	4	4	4	2	4	4	4	4	4
Hyjet™ S4	23711	4	X	1	4	2	4	X	X	X	X	X	X	X	X	1
Hyjet™ W	23711	4	4	1	4	2	4	X	X	X	X	X	X	X	X	1
Hypochlorous Acid	8782	4	4	2	1	X	4	4	4	X	2	2	4	X	X	1
Indole	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Insulin	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Iodic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Iodine	9746	2	2	2	1	X	4	2	X	X	2	X	2	1	X	1
Iodine Pentafluoride	34860	4	4	4	4	X	4	4	4	4	4	4	4	4	4	1
Iodoform	34860	X	X	4	3	X	4	4	X	X	4	4	X	X	X	1
Isoamyl Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Isoamyl Butyrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Isoamyl Valerate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Isoboreol	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Isobutane	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Isobutyl Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Isobutyl Alcohol	23711	2	2	1	1	X	1	2	4	4	1	1	1	2	1	1
Isobutyl Chloride	9746	4	4	4	1	4	4	X	X	X	X	X	X	X	X	1
Isobutyl Ether	34860	2	2	4	4	4	3	X	X	X	X	X	X	X	X	1
Isobutyl Methyl Ketone	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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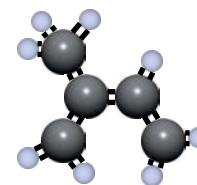
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU /EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Isobutyl Phosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Isobutyl n-Butyrate	23711	4	4	1	1	X	4	4	4	X	1	4	4	1	X	1
Isobutylene	9848	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Isobutyraldehyde	23711	3	2	2	4	4	3	X	X	X	X	X	X	X	X	2
Isobutyric Acid	5747	1	1	2	4	3	4	X	X	X	X	X	X	X	2	1
Isocrotyl Chloride	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Isodecanol	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Isododecane	5747	1	1	4	1	X	2	4	4	X	4	4	2	1	4	1
Isoeugenol	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Isooctane	5780	1	1	4	1	2	2	4	1	2	4	4	2	1	4	1
Isopentane	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Isophorone (Ketone)	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	4	1
Isopropanol	23711	2	2	1	1	X	2	2	4	3	1	1	1	2	1	1
Isopropyl Acetate	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	4	1
Isopropyl Alcohol	23711	2	2	1	1	X	2	2	4	3	1	1	1	2	1	1
Isopropyl Chloride	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Isopropyl Ether	5780	2	2	4	4	4	3	4	3	2	4	4	3	3	4	1
Isopropylacetone	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Isopropylamine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
JP-10	9746	3	3	4	1	X	4	4	4	3	4	4	X	1	4	1
JP-3 (MIL-J-5624)	5767	1	1	4	1	2	4	X	X	X	X	X	X	X	X	1
JP-4 (MIL-T-5624)	5767	1	1	4	1	X	4	4	2	2	4	4	4	2	4	1
JP-5 (MIL-T-5624)	5767	1	1	4	1	X	4	4	2	2	4	4	4	2	4	1
JP-6 (MIL-J-25656)	5767	1	1	4	1	X	4	4	2	2	4	4	4	2	4	1
JP-8 (MIL-T-83133)	5767	1	1	4	1	X	3	4	1	1	4	4	X	2	4	1
JP-9 (MIL-F-81912)	9746	3	3	4	1	X	4	4	4	3	4	4	X	2	4	1
JP-9 -11	9746	4	4	4	1	X	4	4	4	4	4	4	X	2	4	1
JPX(MIL-F-25604)	5747	1	1	4	4	2	2	X	X	X	X	X	X	X	X	1
Jet Fuel A	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Kel F® Liquids	23711	1	1	1	2	X	X	1	X	X	1	X	1	2	1	3
Kerosene (RP-1 and JP-1)	5780	1	1	4	1	1	2	4	1	1	4	4	3	1	4	1
Keystone™ #87HX-Grease	3720	1	1	4	1	X	4	4	1	1	4	4	4	1	4	1
LB 135	5747	1	1	1	1	1	1	X	X	X	X	X	X	X	X	1
Lacquer Solvents	34860	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1
Lacquers	34860	4	4	4	4	X	4	4	4	4	4	4	4	4	4	1
Lactams-Amino Acids	23711	4	4	2	4	X	2	4	X	X	2	4	2	4	X	1
Lactic Acid Cold	5780	1	1	1	1	X	1	1	4	X	1	1	1	1	1	1
Lactic Acid Hot	9746	4	4	4	1	X	4	4	4	X	4	4	3	2	2	1
Lactones (Cyclic Esters)	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	2	4

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Compound Selection Guide

Compound Worksheet



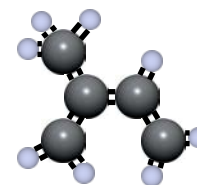
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Lard Animal Fat	3744	1	1	2	1	X	2	4	1	1	2	4	4	1	2	1
Lauric Acid	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Lavender Oil	9746	2	2	4	1	X	4	4	2	4	4	4	4	2	4	1
Lead Acetate	23711	2	2	1	4	X	2	4	4	4	1	1	4	4	4	1
Lead Arsenate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lead Azide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lead Bromide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lead Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lead Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lead Chromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lead Dioxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lead Linoleate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lead Nitrate	5780	1	1	1	1	X	1	1	X	X	1	1	1	1	2	1
Lead Oxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lead Sulfamate	4753	2	2	1	1	X	1	2	4	X	1	2	1	1	2	1
Lehigh X1169	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Lehigh X1170	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Light Grease	3720	1	1	4	1	1	4	X	X	X	X	X	X	X	X	1
Ligroin (Petroleum Ether or Benzene)	5780	1	1	4	1	X	2	4	1	2	4	4	3	1	4	1
Lime Bleach	5780	1	1	1	1	X	2	2	4	X	1	1	2	1	2	1
Lime Sulfur	23711	4	1	1	1	X	1	4	4	X	4	4	1	1	1	1
Lindol, Hydraulic Fluid(Phosphate ester)	23711	4	1	1	2	X	4	4	4	4	1	4	4	3	3	1
Linoleic Acid	19711	2	2	4	2	X	4	4	X	X	4	4	4	X	2	1
Linseed Oil	5780	1	1	3	1	X	2	4	1	2	3	4	2	1	1	1
Liquid Oxygen (LOX)	N/A	4	4	4	4	X	4	4	4	4	4	4	4	4	4	2
Liquid Petroleum Gas (LPG)	5747	1	1	4	1	X	2	4	3	1	4	4	2	3	3	1
Liqui Moly™	5747	1	1	4	1	X	2	4	1	2	4	4	4	1	4	1
Lithium Bromide (Brine)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Citrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Hydroxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Hypochlorite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Nitrite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Perchlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithium Salicylate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lithopone	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Lubricating Oils (Crude & Refined)	9746	2	2	4	1	1	3	X	X	X	X	X	X	X	X	1

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Compound Worksheet



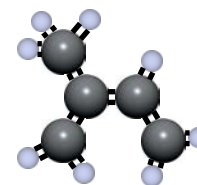
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Lubricating Oils (Synthetic base)	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Lubricating Oils, Di-ester	9746	2	2	4	1	X	3	4	2	X	4	4	X	2	4	1
Lubricating Oils, SAE 10, 20, 30, 40, 50	3720	1	1	4	1	X	2	4	1	2	4	4	4	1	4	1
Lubricating Oils, petroleum base	3720	1	4	4	1	X	2	4	1	2	4	4	2	1	4	1
Lye Solutions	23711	2	2	1	2	X	2	2	4	4	1	2	1	1	2	1
MCS® 312	9746	4	4	4	1	X	4	4	4	X	4	4	X	1	1	1
MCS® 352	623706	4	4	1	4	X	4	4	4	4	2	4	4	3	3	4
MCS® 463	623706	4	4	1	4	X	4	4	4	4	2	4	4	3	3	4
MDI (Methylene di-p-phenylene isocyanate)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
MIL-A-6091	623706	2	2	1	1	X	1	1	4	4	1	1	1	1	1	1
MIL-C-4339	3716	1	1	4	1	X	4	4	1	1	4	4	4	1	3	1
MIL-C-7024	3716	1	1	4	1	X	2	4	2	2	4	4	3	1	4	1
MIL-C-8188	3716	1	2	4	1	X	3	4	3	3	3	4	3	1	3	1
MIL-E-9500	23711	1	1	1	1	X	1	1	4	4	1	1	1	1	1	1
MIL-F-16884	3716	1	1	4	1	X	3	4	1	3	4	4	3	1	4	1
MIL-F-17111	3716	1	X	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-F-25558 (RJ-1)	3716	1	1	4	1	X	2	4	1	1	4	4	2	1	3	1
MIL-F-25656	3716	1	X	4	1	X	3	4	X	3	4	4	3	2	4	1
MIL-F-5566	23711	1	X	1	1	X	2	1	X	2	1	1	2	1	1	1
MIL-F-81912 (JP-9)	9848	3	3	4	1	X	4	4	4	3	4	4	X	2	4	1
MIL-F-82522 (RJ-4)	3716	2	2	4	1	X	4	4	1	1	4	1	X	1	4	1
MIL-G-10924	3716	1	X	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-G-15793	3716	1	X	4	1	X	3	4	3	3	3	4	3	1	3	1
MIL-G-21568	23711	1	X	1	1	X	1	1	1	X	1	2	1	1	4	1
MIL-G-25013	9746	1	X	1	1	X	2	1	2	3	1	2	2	2	4	1
MIL-G-25537	3716	1	X	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-G-25760	9848	1	X	4	1	X	3	3	3	2	4	3	3	1	4	1
MIL-G-3278	20763	2	2	4	1	X	4	4	1	2	4	4	4	2	4	1
MIL-G-3545	3716	2	X	4	1	X	2	4	2	3	4	4	3	1	4	1
MIL-G-4343	9848	2	X	3	1	X	2	4	1	1	3	4	2	2	4	1
MIL-G-5572	3716	1	1	4	1	X	4	4	2	2	4	4	4	1	4	1
MIL-G-7118	3716	1	X	4	1	X	3	4	3	3	3	4	3	1	3	1
MIL-G-7187	3716	1	X	4	1	X	1	4	1	1	4	4	1	1	3	1
MIL-G-7421	20763	1	X	4	1	X	3	4	X	2	3	4	3	1	3	1
MIL-G-7711	3716	1	X	4	1	X	1	4	1	1	4	4	1	1	3	1
MIL-H-13910	5780	1	X	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-H-19457	23711	4	X	1	4	X	4	4	4	4	1	4	4	3	4	1
MIL-H-22251	23711	2	2	1	X	X	2	2	X	X	1	X	2	X	4	X
MIL-H-27601	9848	2	X	4	1	X	2	4	2	3	4	4	3	1	4	1

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Compound Worksheet



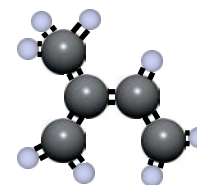
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
MIL-H-46170 -15°F to +400°F	9848	1	1	4	1	X	2	4	2	2	4	4	2	1	4	1
MIL-H-46170 -20°F to +275°F	3716	1	1	4	1	X	2	4	2	2	4	4	2	1	4	1
MIL-H-46170 -55°F to +275°F	3716	1	1	4	1	X	2	4	2	2	4	4	2	1	4	1
MIL-H-46170 -65°F to +275°F	3716	1	1	4	1	X	2	4	2	2	4	4	2	1	4	1
MIL-H-5606 -65°F to +235°F	3716	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
MIL-H-5606 -65°F to +275°F	3716	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
MIL-H-6083	3716	1	X	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-H-7083	23711	1	X	1	2	X	2	1	3	3	1	2	2	2	2	1
MIL-H-8446 (MLO-8515)	9848	2	X	4	1	X	2	4	3	4	4	4	X	1	4	1
MIL-J-5161	3716	1	X	4	1	X	3	4	X	3	4	4	3	1	4	1
MIL-L-15016	5716	1	1	4	1	X	2	4	1	1	4	4	2	2	4	1
MIL-L-15017	5716	1	X	4	1	X	3	4	X	3	4	4	3	1	4	1
MIL-L-17331	9848	1	X	4	1	X	1	4	1	1	4	4	1	1	3	1
MIL-L-2104	5716	1	X	4	1	X	1	4	1	1	4	4	1	1	3	1
MIL-L-21260	5716	1	X	4	1	X	1	4	1	1	4	4	1	1	3	1
MIL-L-23699	9848	1	X	4	1	X	3	4	3	3	3	4	3	1	3	1
MIL-L-25681	9848	1	X	1	1	X	2	1	2	3	1	2	2	2	4	1
MIL-L-3150	5716	1	X	4	1	X	1	4	1	1	4	4	1	1	3	1
MIL-L-6081	5716	1	X	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-L-6082	5716	1	X	4	1	X	1	4	1	1	4	4	1	1	3	1
MIL-L-6085	9848	2	2	4	1	X	3	4	3	3	3	4	3	1	3	1
MIL-L-6387	9848	1	X	4	1	X	3	4	X	2	3	4	3	2	3	1
MIL-L-7808	9848	1	2	4	1	X	3	4	3	3	3	4	3	1	3	1
MIL-L-7870	5716	1	X	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-L-9000	5716	1	X	4	1	X	2	4	2	3	4	4	3	1	4	1
MIL-L-9236	9848	1	X	3	1	X	3	3	3	2	3	3	3	1	4	1
MIL-O-3503	5716	1	X	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-P-27402	23711	2	2	1	X	X	2	2	X	X	1	X	2	X	4	X
MIL-R-25576 (RP-1)	3716	1	1	4	1	X	3	4	1	1	4	4	3	1	4	1
MIL-S-3136, Type I Fuel	3720	1	1	4	1	X	2	4	2	2	4	4	3	1	4	1
MIL-S-3136, Type II Fuel	3720	1	1	4	1	X	3	4	X	3	4	4	3	1	4	1
MIL-S-3136, Type III Fuel	3720	1	1	4	1	X	3	4	X	3	4	4	3	1	4	1
MIL-S-3136, Type IV Oil High Swell	5747	1	1	4	1	X	4	4	1	1	4	4	4	1	2	1
MIL-S-3136, Type IV Oil Low Swell	5747	1	1	4	1	X	1	4	1	1	4	4	1	1	3	1
MIL-S-3136, Type V Oil Medium Swell	5747	1	1	4	1	X	2	4	1	2	4	4	2	1	3	1
MIL-S-81087	23711	1	X	1	1	X	1	1	1	1	1	1	1	2	4	1
MIL-T-5624, JP-4, JP-5	3716	1	1	4	1	X	3	4	2	3	4	4	3	1	4	1
MIL-T-83133	3716	1	1	4	1	X	3	4	1	1	4	4	X	2	4	1
MLO-7277 Hydr.	9848	3	3	4	1	X	4	4	3	3	4	4	4	3	4	1

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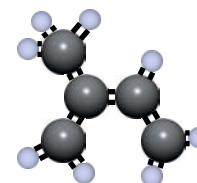
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
MLO-7557	9848	3	3	4	1	X	4	4	3	3	4	4	4	3	4	1
MLO-8200 Hydr.	9848	2	2	4	1	X	1	4	X	1	4	4	4	2	4	1
MLO-8515	9848	2	2	4	1	X	1	4	3	1	4	4	3	1	4	1
Magnesium Chloride	5747	1	1	1	1	X	1	1	X	1	1	1	1	1	1	1
Magnesium Hydroxide	23711	2	2	1	1	X	1	2	4	4	1	2	1	X	X	1
Magnesium Salts	5747	1	1	1	1	X	1	1	1	1	1	1	1	1	1	X
Magnesium Sulfite and Sulfate	5747	1	X	1	1	X	1	2	4	X	1	2	1	1	1	1
Magnesium Trisilicate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Malathion	9746	2	2	4	1	X	X	4	X	X	4	4	X	2	4	1
Maleic Acid	9746	4	4	2	1	X	3	3	4	X	2	3	4	X	X	1
Maleic Anhydride	23711	4	4	2	4	X	3	3	4	X	2	3	4	X	X	1
Maleic Hydrazide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Malic Acid	8782	1	1	2	1	X	3	3	4	X	2	3	2	1	2	1
Mandelic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Dioxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Gluconate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Hypophosphite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Linoleate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Phosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganese Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganous Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganous Phosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Manganous Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mannitol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercaptan	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Mercaptobenzothiazole (MBT)	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Mercuric Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercuric Chloride	5747	1	1	1	1	X	1	1	X	X	1	1	1	X	X	1
Mercuric Cyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercuric Iodide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercuric Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercuric Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercuric Sulfite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercurous Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercury	3744	1	1	1	1	X	1	1	X	1	1	1	1	X	X	1
Mercury Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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Compound Worksheet



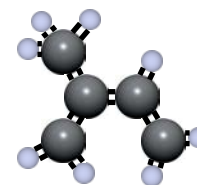
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU /EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Mercury Fulminate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercury Salts	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mercury Vapors	3744	1	1	1	1	X	1	1	X	X	1	1	1	X	X	1
Mesityl Oxide (Ketone)	23711	4	4	2	4	4	4	4	4	4	2	4	4	4	4	1
Meta-Cresol	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	X
Meta-Nitroaniline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Meta-Toluidine	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	X
Metalddehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methacrylic Acid	23711	4	X	2	4	X	2	4	4	4	2	4	4	4	4	1
Methallyl Chloride	8782	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methane	5780	1	1	4	1	X	2	4	1	3	4	4	2	2	4	1
Methanol	23711	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Methoxychlor	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Methoxyethanol (DGMMA)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Abietate	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl Acetate	23711	4	4	1	4	X	2	3	4	4	1	3	4	4	4	1
Methyl Acetoacetate	23711	4	4	2	4	X	4	X	4	4	2	X	4	4	2	1
Methyl Acetophenone	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl Acrylate	23711	4	X	2	4	X	2	4	4	4	2	4	4	4	4	1
Methyl Alcohol	23711	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Methyl Amylketone	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Anthranilate	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl Benzoate	9746	4	4	4	1	X	4	4	4	4	4	4	4	1	4	1
Methyl Bromide	9746	2	2	4	1	X	4	4	3	X	4	4	4	1	X	1
Methyl Butyl Ketone	23711	4	4	1	4	X	4	4	4	4	1	4	4	4	3	1
Methyl Butyrate Cellosolve	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Butyrate Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Carbonate	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Methyl Cellosolve	23711	3	3	2	4	1	3	4	4	4	2	4	2	4	4	1
Methyl Cellulose	5747	2	2	2	4	X	2	2	4	2	2	2	2	4	2	1
Methyl Chloride	9746	4	4	3	2	X	4	4	4	4	3	4	4	2	4	1
Methyl Chloroacetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Chloroform	9746	4	4	4	1	4	4	X	X	X	X	X	X	X	X	1
Methyl Chloroformate	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Methyl Cyanide (Acetonitrile)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Cyclohexanone	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Methyl Dichloride	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl Ether	5780	1	1	4	4	X	3	4	4	X	4	4	3	1	1	1
Methyl Ethyl Ketone (MEK)	23711	4	4	1	4	4	3	4	4	4	2	4	4	4	4	1

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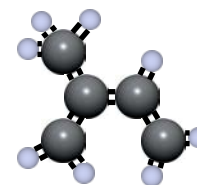
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU /EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Methyl Ethyl Ketone Peroxide	19711	4	4	4	4	X	4	4	4	4	4	4	4	4	2	1
Methyl Ethyl Oleate	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl Formate	4753	4	4	2	4	X	2	4	X	X	2	4	2	X	X	1
Methyl Hexyl Ketone (2-Octanone)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Iodide	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Methyl Isobutyl Ketone (MIBK)	23711	4	4	2	4	4	4	4	4	4	3	4	4	4	4	1
Methyl Isocyanate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Isopropyl Ketone	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	4	1
Methyl Isovalerate	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl Lactate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methyl Mercaptan	23711	X	X	1	X	X	X	X	X	X	1	X	X	X	X	1
Methyl Methacrylate	34860	4	4	3	4	X	4	4	4	X	4	4	4	4	4	1
Methyl Oleate	9746	4	4	2	2	X	4	4	X	X	2	4	4	2	X	1
Methyl Pentadiene	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl Phenylacetate	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl Salicylate	23711	4	X	2	2	3	4	3	X	X	2	3	4	X	X	1
Methyl Tertiary Butyl Ether (MTBE)	34860	3	3	3	3	2	3	X	X	X	X	X	X	X	X	1
Methyl Valerate	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methyl-2-Pyrrolidone or n-Methyl-2-Pyrrolidone	23711	X	X	2	X	X	X	X	X	X	X	X	X	X	X	1
Methylacrylic Acid	23711	4	4	2	3	X	2	4	4	4	2	4	4	4	4	1
Methylal	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Methylamine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methylamyl Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methylcyclopentane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Methylene Bromide	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methylene Chloride	9746	4	4	4	2	X	4	4	4	4	4	4	4	2	4	1
Methylene Iodide	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methylglycerol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Methylisobutyl Carbinol	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Methylpyrrolidine	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methylpyrrolidone	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Methylsulfuric Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Milk	3741	1	1	1	1	X	1	1	4	4	1	1	1	1	1	1
Mineral Oils	3720	1	1	3	1	X	2	4	1	1	3	4	2	1	2	1
Mixed Acids	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mobil™ 24dte	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Mobil™ Delvac 1100, 1110, 1120, 1130	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	X
Mobil™ HF	3720	1	1	4	1	X	2	X	X	X	X	X	X	X	X	1
Mobil™ Nivac 20, 30	3720	1	1	1	1	1	1	X	X	X	X	X	X	X	X	X

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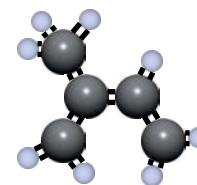
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Mobil™ SHC 500 Series	3720	3	3	4	1	X	2	X	1	2	4	X	2	2	2	1
Mobil™ SHC 600 Series	3720	3	3	4	1	X	2	4	1	1	4	X	2	2	3	1
Mobil™ Therm 600	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Mobil™ Velocite c	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Mobilgas™ WA200 ATF	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Mobilgear™ 600 Series	9746	3	3	3	1	X	1	4	1	2	3	4	2	1	1	1
Mobilgear™ SHC ISO Series	9746	3	3	3	1	X	2	4	1	2	3	4	2	1	1	1
Mobilgrease™ HP	9746	2	2	4	1	X	2	4	1	1	4	4	3	1	2	1
Mobilgrease™ HTS	9746	2	2	4	1	X	2	4	1	1	4	4	3	1	2	1
Mobilgrease™ SM	9746	2	2	4	1	X	2	4	1	1	4	4	3	1	2	1
Mobilith™ AW Series	9746	2	2	4	1	X	2	4	1	1	4	4	3	1	2	1
Mobilith™ SHC Series	9746	2	2	4	1	X	3	4	1	1	4	4	3	1	2	1
Mobil Jet™ II Lubricant	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Mobil™ Mist Lube Series	9746	3	3	3	1	X	1	4	1	2	3	4	2	1	1	1
Mobil™ Oil SAE 20	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Mobilux™	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Molybdenum Disulfide Grease	3720	1	X	4	1	1	4	X	X	X	X	X	X	X	X	1
Molybdenum Oxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Molybdenum Trioxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Molybdic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Monobromobenzene	8706	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Monobromotoluene	8706	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Monobutyl Paracresol	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Monochloroacetic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	2
Monochlorobenzene	8706	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Monochlorobutene	8706	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Monochlorohydrin	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Monoethanolamine (MEA)	23711	4	X	1	4	X	4	2	4	4	2	2	4	4	2	1
Monoethyl Amine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Monoisopropylamine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Monomethyl Aniline	23711	4	X	1	2	X	1	1	4	4	1	1	1	1	2	1
Monomethyl Ether (Dimethyl Ether)	34860	1	X	4	4	X	3	4	4	X	4	4	2	1	1	1
Monomethyl Ether (Methyl Ether)	5780	1	X	4	4	X	3	4	4	X	4	4	2	1	1	1
Monomethyl Hydrazine	23711	2	2	1	X	X	2	2	X	X	1	X	2	X	4	2
Monomethylamine (MMA)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Monomethylaniline	8706	4	4	2	2	X	4	4	4	4	2	4	4	X	X	1
Mononitrotoluene	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Mononitrotoluene & Dinitrotoluene(40/60)	23711	4	4	1	3	X	4	4	4	4	4	4	4	3	4	2
Monovinyl Acetylene	5780	1	X	2	1	X	2	2	X	X	2	2	2	X	2	1

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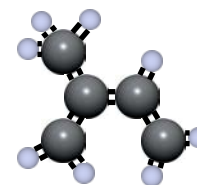
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Mopar® Brake Fluid	23747	3	3	1	4	X	2	1	X	X	2	X	2	4	3	1
Morpholine	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Motor Oils	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Mustard Gas	23711	X	X	1	1	X	1	2	X	X	1	1	1	X	1	1
Myristic Acid	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Naphthalene	9746	4	4	4	1	1	4	4	X	2	4	4	4	1	4	1
Naphthalene Chloride	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Naphthalene Sulfonic Acid	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Naphthalenic Acid	9746	2	X	4	1	2	4	4	X	X	4	4	4	1	4	1
Naphthalonic Acid	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Naphthenic Acid	9746	2	2	4	1	X	4	4	X	X	4	4	4	1	4	1
Naphthylamine	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Naphtha	9746	2	2	4	1	X	4	4	2	2	4	4	4	2	4	1
Natural Gas	5780	1	1	4	1	X	1	2	2	2	4	2	1	3	1	1
Neatsfoot Oil	5780	1	1	2	1	X	4	4	1	1	2	4	4	1	2	1
Neon	13766	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1
Neville Acid	9746	4	4	2	1	X	4	4	4	X	2	4	4	2	4	1
Nickel Acetate	23711	2	2	1	4	X	2	4	4	4	1	1	4	4	4	1
Nickel Ammonium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nickel Chloride	5767	1	1	1	1	X	1	1	3	3	1	1	1	1	1	1
Nickel Cyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nickel Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nickel Salts	5767	1	1	1	1	X	2	1	3	3	1	1	1	1	1	1
Nickel Sulfate	5767	1	1	1	1	X	1	2	4	3	1	2	1	1	1	1
Nicotinamide (Niacinamide)	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Nicotinamide Hydrochloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nicotine	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Nicotine Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Niter Cake	5747	1	1	1	1	X	1	1	4	1	1	1	1	1	1	1
Nitric Acid (0 - 50%)	8782	4	X	2	1	2	2	4	4	3	2	4	1	2	2	1
Nitric Acid (50 - 100%)	34860	4	4	4	2	2	4	4	4	4	4	4	2	3	4	1
Nitric Acid - Red Fuming	34860	4	4	4	3	2	4	4	4	4	4	4	4	4	4	2
Nitric Acid - White Fuming	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Nitric Acid 3 Molar to 158°F	23711	4	4	2	3	X	4	3	4	4	2	X	2	4	4	2
Nitric Acid Concentrated Room Temp.	8782	4	4	4	2	2	4	4	4	4	4	4	2	3	2	1
Nitric Acid Concentrated to 158°F	N/A	4	4	4	4	X	4	4	4	4	4	4	X	4	4	1
Nitroaniline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrobenzene	23711	4	4	1	2	1	4	4	4	4	1	4	4	4	4	1
Nitrobenzoic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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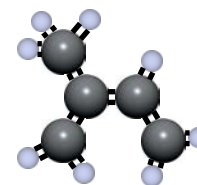
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Nitrocellulose	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrochlorobenzene	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrochloroform	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrodiethylaniline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrodiphenyl Ether	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitroethane	23711	4	X	2	4	2	3	2	4	4	2	2	2	4	4	1
Nitrofluorobenzene	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrogen	13766	1	X	1	1	X	1	1	1	1	1	1	1	1	1	1
Nitrogen Oxides	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrogen Trifluoride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitroglycerine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitroglycerol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitroisopropylbenzene	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitromethane	23711	4	4	2	4	X	2	2	4	4	2	2	3	4	4	1
Nitrophenol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitropropane	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	4	1
Nitrosyl Chloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitrosylsulfuric Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitrothiophene	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrotoluene	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrous Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Nitrous Oxide	23711	1	1	1	1	X	X	X	X	X	X	X	X	X	1	1
Nonane	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Noryl® GE Phenolic	5747	1	1	1	X	X	X	X	X	X	X	X	X	X	X	X
Nyvac FR200 Mobil™	3720	1	1	1	1	X	2	4	X	X	4	4	3	X	X	1
OS 45 Type III (OS45)	9848	2	2	4	1	X	1	4	X	4	4	4	2	2	4	1
OS 45 Type IV (OS45-1)	9848	2	2	4	1	X	1	4	X	4	4	4	2	2	4	1
OS 70	9848	2	2	4	1	X	1	4	X	4	4	4	2	2	4	1
Octachloro Toluene	9848	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Octadecane	5780	1	4	4	1	X	2	4	2	1	4	4	2	1	4	1
Octanal (n-Octanaldehyde)	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Octane or n-Octane	9746	2	X	4	1	X	2	4	4	4	4	4	2	2	4	1
Octyl Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Octyl Alcohol	9746	2	2	3	1	X	1	2	4	4	3	2	2	2	2	1
Octyl Chloride	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Octyl Phthalate	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Olefins	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Oleic Acid	8782	3	1	4	2	1	3	4	4	2	4	4	3	X	4	1
Oleum (Fuming Sulfuric Acid)	8782	4	4	4	1	X	4	4	4	4	4	4	4	X	4	1

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Compound Selection Guide

Compound Worksheet



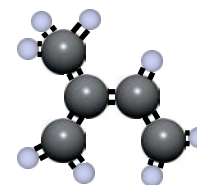
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Oleum Spirits	8782	2	2	4	1	X	3	4	X	3	4	4	2	2	4	1
Oleyl Alcohol	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Olive Oil	3744	1	1	2	1	X	2	4	1	1	2	4	2	1	3	1
Oronite® 8200	9746	2	2	4	1	X	1	4	X	1	4	4	4	1	4	1
Oronite® 8515	9746	2	2	4	1	X	1	4	X	1	4	4	4	1	4	1
Ortho-Chloro Ethyl Benzene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Ortho-Chloroaniline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Ortho-Chlorophenol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Ortho-Cresol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Ortho-Dichlorobenzene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	X
Ortho-Nitrotoluene	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Orthophos Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Oxalic Acid	23711	2	2	1	1	X	2	2	X	X	1	2	2	1	2	1
Oxygen 200-300°F (Evaluate each application)	8748	4	4	4	2	X	X	X	X	X	X	X	X	X	X	X
Oxygen 300-400°F (Evaluate each application)	19711	4	4	4	2	X	4	4	4	4	4	4	4	4	1	X
Oxygen, Cold (Evaluate each application)	4753	2	2	1	1	X	1	2	2	1	1	2	1	1	1	1
Oxygen, Liquid	N/A	4	4	4	4	4	4	X	X	X	X	X	X	X	X	2
Ozonated Deionized Water	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ozone	23711	4	4	1	1	X	3	4	2	1	2	4	1	2	1	1
PRL-High Temp. Hydraulic Oil	9848	2	2	4	1	X	2	4	1	2	4	4	4	1	2	1
Paint Thinner	608804	4	4	4	2	X	4	4	4	4	4	4	4	2	4	1
Palmitic Acid	5780	1	1	2	1	X	2	2	X	1	2	2	3	1	4	1
Para-Aminobenzoic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Para-Aminosalicylic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Para-Bromobenzylphenyl Ether	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Para-Chlorophenol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Para-Dichlorobenzene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	X
Para-Formaldehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Para-Nitroaniline	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Para-Nitrobenzoic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Para-Nitrophenol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Para-Toluene Sulfonic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Paracymene	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	X
Paraffins	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Paraldehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Parathion	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Parker™ O Lube	3720	1	1	4	1	X	1	2	1	1	4	4	1	1	2	1
Peanut Oil	3744	1	X	3	1	X	3	4	1	2	3	4	2	1	1	1
Pectin (Liquor)	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1

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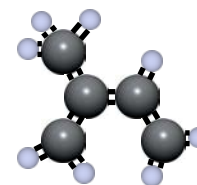
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Penicillin (Liquid)	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Pentachloroethane	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Pentachlorophenol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Pentaerythritol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Pentaerythritol Tetranitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Pentafluoroethane (F-125)	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Pentane or n-Pentane	5747	1	1	4	1	X	1	3	1	4	4	4	2	3	4	1
Pentane, 2 Methyl	5747	1	1	4	1	X	2	4	1	4	4	4	2	3	4	1
Pentane, 2-4 dimethyl	5747	1	1	4	1	X	2	4	1	4	4	4	2	3	4	1
Pentane, 3-Methyl	5747	1	1	4	1	X	2	4	1	4	4	4	2	3	4	1
Pentyl Pentanoate	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Peracetic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Perchloric Acid - 2N	23711	4	X	2	1	X	2	4	4	4	2	4	2	1	2	1
Perchloroethylene	9746	2	X	4	1	X	4	4	4	4	4	4	4	2	4	1
Perfluoropropane	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Perfluorotriethylamine	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Permanganic Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Persulfuric Acid (Caro's Acid)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Petrolatum	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Petrolatum Ether	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Petroleum Oil, Above 250°F	9746	4	X	4	2	X	2	4	4	4	4	4	4	4	4	1
Petroleum Oil, Below 250°F	3720	1	X	4	1	X	2	4	2	2	4	4	2	2	2	1
Petroleum Oil, Crude	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Phenol	9746	4	4	2	1	1	3	X	4	3	2	4	2	1	4	1
Phenol, 70%/30% H2O	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Phenol, 85%/15% H2O	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Phenolic Sulfonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Phenolsulfonic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Phenylacetamide	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Phenylacetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Phenylacetic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Phenylbenzene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Phenylethyl Alcohol	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Phenylethyl Ether	34744	4	4	4	4	X	4	4	4	4	4	4	4	4	4	1
Phenylethyl Malonic Ester	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Phenylglycerine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Phenylhydrazine	9746	4	X	2	2	X	4	2	4	X	2	1	4	X	X	1
Phenylhydrazine Hydrochloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Phenylmercuric Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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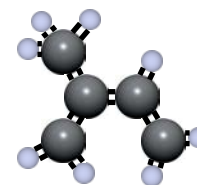
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Phorone	N/A	4	4	3	4	X	4	4	4	4	3	4	4	4	4	1
Phosphoric Acid 3 Molar to 158°F	23711	1	1	1	1	X	2	2	3	4	1	X	1	2	2	X
Phosphoric Acid Concentrated Room Temp	23711	2	2	1	1	X	2	1	2	4	1	X	1	3	3	1
Phosphoric Acid Concentrated to 158°F	23711	4	4	1	1	X	3	2	3	4	1	X	1	3	4	1
Phosphoric Acid, 20%	23711	2	X	1	1	X	2	2	X	1	2	2	1	2	2	1
Phosphoric Acid, 45%	8782	4	X	1	1	1	2	3	X	1	2	3	2	2	3	1
Phosphorus Oxychloride	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Phosphorus Trichloride	23711	4	4	1	1	X	4	4	X	X	1	4	4	1	X	1
Phosphorus Trichloride Acid	23711	4	4	1	1	1	4	X	X	X	X	X	X	X	X	1
Phthalic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Phthalic Anhydride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Pickling Solution	8782	4	4	3	2	X	4	4	4	4	3	4	2	4	4	1
Picric Acid (aq)	4753	2	X	2	1	X	1	2	X	2	2	2	2	2	4	1
Picric Acid Molten	8782	2	2	2	1	X	2	2	X	X	2	2	2	2	4	1
Pine Oil	9746	4	X	4	1	1	4	4	X	X	4	4	4	1	4	1
Pine Tar	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Pinene	9746	2	X	4	1	X	3	4	4	2	4	4	3	2	4	1
Piperazine	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Piperidine	34860	4	4	4	4	X	4	4	4	4	4	4	4	4	4	1
Plating Solution (Co,Cu,Au,In,Fe,Pb,Ni,Ag,Sn,Zn)	3744	1	1	1	1	X	4	4	X	X	1	4	1	X	4	1
Plating Solutions Chrome	9746	X	4	2	1	X	4	4	X	X	1	4	4	X	4	1
Plating Solutions Others	3744	1	1	1	1	X	4	4	X	X	1	4	1	X	4	1
Pneumatic Service	5747	1	1	1	1	X	1	4	4	1	1	4	1	4	4	1
Polyethylene Glycol	23711	2	2	1	3	1	2	X	X	X	X	X	X	X	X	1
Polyglycerol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Polyglycol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Polyvinyl Acetate Emulsion	23711	X	X	1	X	X	2	4	X	X	1	2	2	X	X	1
Potassium Acetate	23711	2	X	1	4	1	2	4	4	4	1	1	1	4	4	1
Potassium Acid Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Alum	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Aluminum Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Antimonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Bicarbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Bichromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Bifluoride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Bisulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Bisulfite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Bitartrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Bromide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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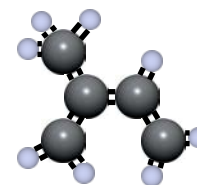
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Potassium Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Chlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Chloride	5780	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Chromates	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Citrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Cupro Cyanide	5747	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1
Potassium Cyanate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Cyanide	5747	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1
Potassium Dichromate	5747	1	1	1	1	X	1	2	1	2	1	2	1	1	1	1
Potassium Diphosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Ferricyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Fluoride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Glucocyanate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Hydroxide 50%	23711	2	2	1	4	1	2	2	4	4	1	2	1	3	3	1
Potassium Hypochlorite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Iodate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Iodide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Metabisulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Metachromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Metasilicate	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Potassium Monochromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Nitrate	5780	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Nitrite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Oxalate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Perchlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Perfluoro Acetate	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Potassium Permanganate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Peroxide	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Potassium Persulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Phosphate (Acid)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Phosphate (Alkaline)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Phosphate (Di/Tri Basic)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Pyrosulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Salts	5747	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1
Potassium Silicate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Potassium Sodium Tartrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Stannate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Stearate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Sulfate	5780	1	1	1	1	X	1	1	4	1	1	2	2	1	1	1

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Compound Selection Guide

Compound Worksheet



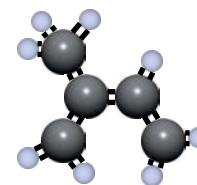
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU /EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Potassium Sulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Sulfite	5747	1	1	1	1	X	1	2	4	1	1	2	2	1	1	1
Potassium Tartrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Thiocyanate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Thiosulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Potassium Triphosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Prestone® Antifreeze	5767	1	1	1	1	X	1	1	4	4	1	1	1	1	1	1
Producer Gas	5780	1	X	4	1	X	2	4	2	1	4	4	2	2	2	1
Propane	5780	1	1	4	1	X	2	4	1	3	4	4	2	2	4	1
Propionaldehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Propionic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Propionitrile	5747	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Propyl Acetate	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	4	1
Propyl Acetone or n-Propyl Acetone	23711	4	4	1	4	X	4	4	4	4	1	4	4	4	3	1
Propyl Alcohol	5780	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1
Propyl Nitrate	23711	4	1	2	4	X	4	4	4	X	2	4	4	4	4	1
Propyl Propionate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Propylamine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	2
Propylbenzene	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Propylene	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Propylene Chloride	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Propylene Chlorohydrin	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Propylene Dichloride	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Propylene Glycol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Propylene Imine	9746	X	X	X	1	X	4	4	4	3	4	4	4	2	X	1
Propylene Oxide	23711	4	4	2	4	X	4	4	4	4	2	4	4	4	4	1
Pydraul™ 10E (PCB's)	23711	4	4	1	1	X	4	4	4	4	1	4	4	4	4	1
Pydraul™ 29ELT 30E, 50E, 65E (PCB's)	9746	4	4	1	1	X	4	4	4	4	1	4	4	1	1	1
Pydraul™ 90e (PCB's)	23711	4	4	1	1	X	4	4	4	4	1	4	4	1	1	1
Pydraul™ 115E (PCB's)	9746	4	4	1	1	X	4	4	4	4	1	4	4	3	4	1
Pydraul™ 230C, 312C, 540C, A200 (PCB's)	9746	4	4	4	1	X	4	4	4	4	4	4	4	4	4	1
Pyranol® Transformer Oil (PCB's)	5767	1	1	4	1	X	2	4	1	2	4	4	3	1	4	1
Pyridine	23711	4	4	2	4	X	4	4	4	X	2	4	4	4	4	1
Pyridine Oil	23711	4	4	2	4	X	4	4	4	X	2	4	4	4	4	4
Pyridine Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Pyridine Sulfonic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Pyrogallol (Pyrogallic Acid)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Pyrogard™ 42, 43, 55	23711	4	4	1	1	2	4	X	X	X	X	X	X	X	X	1
Pyrogard™ 53, Mobil Phosphate Ester	23711	4	4	1	1	X	4	4	4	4	1	4	4	4	4	1

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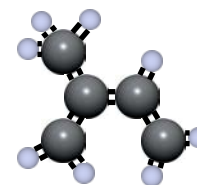
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Pyrogard™ D, Mobil Water-in-Oil Emulsion	3720	1	1	4	4	X	2	4	X	1	4	4	1	2	3	1
Pyroligneous Acid	23711	4	4	2	4	X	2	4	4	4	2	4	2	4	X	1
Pyrolube™	9746	4	4	2	1	X	4	4	4	4	2	4	4	2	2	1
Pyrosulfuric Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Pyrosulfuryl Chloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Pyrrole	23711	4	4	3	4	X	4	3	4	X	4	3	4	3	2	1
Pyruvic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Quinidine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Quinine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Quinine Bisulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Quinine Hydrochloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Quinine Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Quinine Tartrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Quinizarin	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Quinoline	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Quinone	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
RJ-1 (MIL-F-25558)	3716	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
RJ-4 (MIL-F-82522)	3716	2	2	4	1	X	4	4	2	2	4	4	X	1	4	X
RP-1 (MIL-R-25576)	3716	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Raffinate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Rapeseed Oil	23711	2	2	1	1	X	2	4	2	2	1	4	2	1	4	1
Red Line 100 Oil	9746	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Red Oil (MIL-H-5606)	9746	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Resorcinol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1.
Rhodium	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Riboflavin	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Ricinoleic Acid	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Rosin	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
SF 1154 GE Silicone Fluid™	23711	2	2	1	1	X	1	1	1	2	1	1	1	1	4	1
SF 1147 GE Silicone Fluid™	9746	2	2	3	1	X	X	X	X	X	3	X	X	X	4	1
SF 96 GE Silicone Fluid™	23711	2	2	1	1	X	1	1	1	2	1	1	1	1	4	1
SR-6 Fuel	9746	2	2	4	1	X	4	4	2	2	4	4	4	1	4	X
SR-10 Fuel	5747	1	1	4	1	X	4	4	2	2	4	4	4	1	4	X
Saccharin Solution	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sal Ammoniac	23711	1	1	1	1	X	1	1	1	1	1	1	1	1	2	1
Salicylic Acid	23711	2	2	1	1	X	1	2	X	X	1	1	X	1	X	1
Santo Safe 300	9746	4	4	3	1	X	4	4	4	X	3	4	X	1	1	1
Sea (Salt) Water	23711	1	1	1	1	X	2	1	4	2	1	1	1	1	1	1
Sebacic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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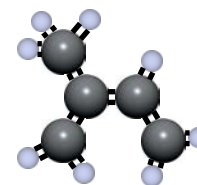
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Selenic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Selenous Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sewage	5747	1	1	2	1	X	2	2	4	4	2	2	1	1	2	1
Shell® 3XF Mine Fluid (Fire resist hydr.)	5747	1	1	4	1	X	2	4	4	4	4	4	2	1	X	1
Shell® Alvania Grease #2	5767	1	1	4	1	X	2	4	1	1	4	4	4	1	2	1
Shell® Carnea 19 and 29	3720	1	1	4	1	X	4	4	1	2	4	4	4	1	X	1
Shell® Diala	3720	1	1	4	1	X	2	4	1	2	4	4	4	1	4	1
Shell® Irus 905	3720	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
Shell® Lo Hydrax 27 and 29	3720	1	1	4	1	X	2	4	1	2	4	4	4	1	4	1
Shell® Macome 72	3720	1	1	4	1	X	2	4	1	2	4	4	4	1	4	1
Shell® Tellus #32 Pet. Base	3720	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
Shell® Tellus #68	3720	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
Shell® Tellus 27 (Petroleum Base)	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Shell® Tellus 33	3720	1	1	4	1	1	2	X	X	X	X	X	X	X	X	1
Shell® UMF (5% Aromatic)	5747	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
Shellac	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Silane	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Silicate Esters	9746	2	2	4	1	X	1	4	X	1	4	4	1	1	4	1
Silicon Fluoride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Silicon Tetrachloride	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Silicon Tetrafluoride	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Silicone Greases	23711	1	1	1	1	X	1	1	1	1	1	1	1	1	3	1
Silicone Oils	23711	1	1	1	1	X	1	1	1	1	1	1	1	1	3	1
Silver Bromide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Silver Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Silver Cyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Silver Nitrate	23711	2	2	1	1	X	1	1	1	1	1	1	1	1	1	1
Silver Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sinclair™ Opaline CX-EP Lube	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Skelly™ Solvent B, C, E	5747	1	1	4	1	X	4	4	X	X	4	4	4	1	X	1
Skydrol® 500 B4	23811	4	4	1	4	X	4	4	4	4	2	4	4	3	3	1
Skydrol® 7000	23811	4	4	1	2	X	4	4	4	4	1	4	4	3	3	1
Skydrol® LD-4	23811	4	4	1	4	X	4	4	4	4	2	4	4	3	3	4
Soap Solutions	23711	1	1	1	1	X	2	1	4	3	1	2	1	1	1	1
Socony Mobile® Type A	3720	1	1	4	1	X	2	4	1	2	4	4	4	2	4	1
Socony Vacuum® AMV AC781 (grease)	3720	1	1	4	1	X	2	4	1	2	4	4	4	2	4	1
Socony Vacuum® PD959B	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Soda Ash	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Sodium (Molten)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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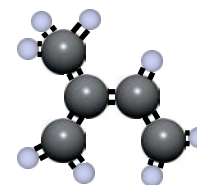
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Sodium Acetate	23711	2	2	1	4	X	2	4	4	4	1	1	1	4	4	1
Sodium Acid Bisulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Acid Fluoride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Acid Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Aluminate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Aluminate Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Anthraquinone Disulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Antimonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Arsenate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Arsenite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Benzoate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Bicarbonate (Baking Soda)	5780	1	1	1	1	1	1	1	X	X	1	1	1	1	1	1
Sodium Bichromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Bifluoride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Bisulfate or Bisulfite	5780	1	1	1	1	1	1	2	4	X	1	1	1	1	1	1
Sodium Bisulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Bitartrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Borate	5780	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Sodium Bromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Bromide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Carbonate (Soda Ash)	5780	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Sodium Chlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Chloride	5780	1	1	1	1	X	1	1	X	1	1	1	1	1	1	1
Sodium Chlorite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Chloroacetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Chromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Citrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Cyanamide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Cyanate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Cyanide	5780	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Sodium Diacetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Diphenyl Sulfonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Diphosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Disilicate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Ethylate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Ferricyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Ferrocyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Fluoride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Fluorosilicate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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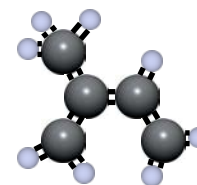
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Sodium Glutamate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Hydride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sodium Hydrogen Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Hydrosulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Hydrosulfite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Hydroxide, 3 Molar	23711	2	2	1	2	1	1	1	3	4	1	1	1	2	2	1
Sodium Hypochlorite	23711	2	2	2	1	1	1	4	4	4	2	4	1	2	2	1
Sodium Hypophosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Hypophosphite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Hyposulfite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Iodide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Lactate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Metaphosphate	5780	1	1	1	1	X	2	1	X	X	1	1	2	1	X	1
Sodium Metasilicate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Methylate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Monophosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Nitrate	23711	2	X	1	1	1	2	1	X	X	1	2	1	X	4	1
Sodium Oleate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Orthosilicate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Oxalate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Perborate	23711	2	2	1	1	X	2	2	X	X	1	2	2	1	2	1
Sodium Percarbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Perchlorate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Peroxide	23711	2	2	1	2	X	2	2	4	4	1	2	2	1	4	1
Sodium Persulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Phenolate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Phenoxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Phosphate (Dibasic)	5747	1	1	1	1	X	2	1	1	1	1	1	1	X	4	1
Sodium Phosphate (Mono)	5780	1	1	1	1	1	2	1	1	1	1	1	1	X	4	1
Sodium Phosphate (Tribasic)	5747	1	1	1	1	X	2	1	1	1	1	1	1	X	1	1
Sodium Plumbite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Pyrophosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Resinate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Salicylate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Salts	5747	1	1	1	1	X	2	1	1	1	1	1	1	1	1	1
Sodium Sesquisilicate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sodium Silicate	5780	1	1	1	1	X	1	1	X	X	1	1	1	X	X	1
Sodium Silicofluoride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sodium Stannate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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Compound Selection Guide

Compound Worksheet



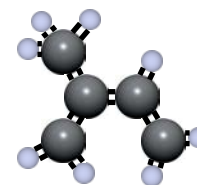
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Sodium Sulfate	5780	1	4	1	1	1	1	2	4	1	1	2	1	1	1	1
Sodium Sulfide and Sulfite	5747	1	1	1	1	X	1	2	4	1	1	2	1	1	1	1
Sodium Sulfo cyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Tartrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Tetraborate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Tetraphosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Tetrasulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Thioarsenate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Thiocyanate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Thiosulfate	23711	2	X	1	1	X	1	2	4	1	1	2	1	1	1	1
Sodium Trichloroacetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sodium Triphosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Solvesso™ 100, 150	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sorbitol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sour Crude Oil	N/A	3	3	4	1	X	4	4	4	4	4	4	X	4	4	1
Sour Natural Gas	N/A	3	3	4	1	X	4	4	4	4	4	4	X	4	4	1
Sovasol™ No. 1, 2, and 3	5747	1	1	4	1	X	2	4	2	2	4	4	2	1	4	1
Sovasol™ No. 73 and 74	9746	2	2	4	1	X	2	4	2	2	4	4	2	1	4	1
Soybean Oil	3744	1	1	3	1	X	2	4	1	2	3	4	3	1	1	1
Spry®	5747	1	1	2	1	X	2	4	1	1	2	4	4	1	1	1
Standard Oil Mobilube™ GX90-EP Lube	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Stannic Ammonium Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Stannic Chloride	5780	1	1	1	1	X	2	1	X	X	1	1	1	1	2	1
Stannic Chloride, 50%	5780	1	1	1	1	X	2	1	X	X	1	1	1	1	2	1
Stannic Tetrachloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Stannous Bisulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Stannous Bromide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Stannous Chloride (15%)	5747	1	1	1	1	X	1	1	X	X	1	1	1	1	2	1
Stannous Fluoride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Stannous Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Stauffer 7700	9848	2	2	4	1	X	4	4	2	X	4	4	4	2	4	1
Steam Below 400°F	23711	4	4	1	4	1	3	4	4	4	2	4	4	4	3	1
Steam, 400°-500°F	623906	4	4	3	4	X	4	4	4	4	4	4	4	4	4	1
Steam, Above 500°F	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stearic Acid	5780	2	2	2	1	1	2	2	X	1	2	2	2	X	2	1
Stoddard Solvent	5780	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
Strontium Acetate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Strontium Carbonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Strontium Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1

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Compound Worksheet



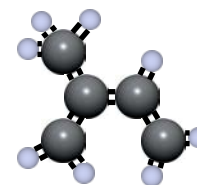
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU /EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Strontium Hydroxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Strontium Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Styrene (Monomer)	9746	4	4	4	2	2	4	4	4	3	4	4	4	3	4	1
Succinic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sucrose Solutions	3744	1	2	1	1	X	2	1	4	4	1	1	2	1	1	1
Sulfamic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sulfanilic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sulfanilic Chloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Sulfanilimide	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Sulfite Liquors	23711	2	X	2	1	X	2	2	4	4	2	2	2	2	4	1
Sulfolane	23711	2	2	1	2	1	2	X	X	X	X	X	X	X	X	1
Sulfonated Oils	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Sulfonic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sulfonyl Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	2
Sulfur	23711	4	4	1	1	X	1	4	4	X	1	4	1	1	3	1
Sulfur (Molten)	9746	4	4	3	1	X	3	4	4	4	3	4	4	3	3	1
Sulfur Chloride	9746	3	4	4	1	X	3	4	4	X	4	4	2	1	3	1
Sulfur Dioxide, Dry	23711	4	4	1	2	2	4	2	4	X	2	2	2	2	2	1
Sulfur Dioxide, Liquidified under pressure	23711	4	4	1	2	X	4	4	4	X	2	4	4	2	2	1
Sulfur Dioxide, Wet	23711	4	4	1	2	X	2	4	4	X	1	4	1	2	2	1
Sulfur Hexafluoride	23711	2	2	1	1	X	1	4	4	X	1	4	2	2	2	1
Sulfur Liquors	9746	2	2	2	1	X	2	2	4	X	2	2	2	2	4	1
Sulfur Monochloride	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Sulfur Tetrafluoride	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2
Sulfur Trioxide Dry	9746	4	4	2	1	X	4	2	4	X	2	2	4	2	2	1
Sulfuric Acid (20% Oleum)	8782	4	2	4	1	1	4	4	4	4	4	4	4	4	4	1
Sulfuric Acid, 3 Molar to 158°F	23711	3	X	2	1	1	2	3	2	3	2	3	1	3	4	1
Sulfuric Acid, Concentrated Room Temp	8782	4	X	3	1	1	4	4	4	4	4	4	1	4	4	1
Sulfuric Acid, Concentrated to 158°F	8782	4	X	4	1	X	4	4	4	4	4	X	X	4	4	1
Sulfuric Chlorohydrin (Chlorosulfonic Acid)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Sulfurous Acid	8782	2	2	2	3	X	2	2	4	3	2	2	1	X	4	1
Sunoco #3661	5767	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Sunoco All purpose grease	5767	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Sunoco SAE 10	5767	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Sunsafe® (Fire resist. hydr. fluid)	5767	1	1	4	1	X	2	4	4	4	4	4	2	1	X	1
Super Shell Gas	5747	1	1	4	1	X	2	4	2	2	4	4	4	2	4	1
Surfuryl Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Swan Finch EP Lube	3720	1	1	4	1	X	4	4	1	1	4	4	4	1	4	1
Swan Finch Hypoid-90	3720	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1

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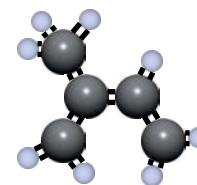
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Tallow	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Tannic Acid (10%)	5780	1	1	1	1	X	1	2	4	1	1	1	1	1	2	1
Tar, bituminous	9746	2	2	3	1	X	3	4	4	X	3	4	4	1	2	1
Tartaric Acid	5780	1	1	2	1	X	2	4	X	1	2	3	1	1	1	1
Tellone II	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Terephthalic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Terpineol	9746	2	2	3	1	X	4	4	X	2	3	4	4	1	X	1
Terpinyl Acetate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Tertiary Amyl Methyl Ether (TAME)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tertiary Butyl Catechol	9746	4	X	2	1	X	2	2	4	4	2	4	2	1	X	1
Tertiary Butyl Mercaptan	9746	4	4	4	1	X	4	4	4	4	4	4	4	X	4	1
Tetrabromoethane	9746	4	4	4	1	X	4	4	4	X	4	4	4	2	4	1
Tetrabromomethane	9746	4	X	4	1	X	4	4	X	X	4	4	X	2	4	1
Tetrabutyl Titanate	23711	2	2	1	1	X	2	2	X	X	2	2	1	1	X	1
Tetrachloroethylene	9746	4	4	4	1	4	4	4	4	4	4	4	4	2	4	1
Tetrachoroethane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	X	1
Tetraethyl Lead	9746	2	2	4	1	X	2	4	X	X	4	4	4	2	X	1
Tetraethyl Lead "Blend"	9746	2	2	4	1	X	4	4	X	X	4	4	4	2	X	1
Tetraethyl Orthosilicate (TEOS)	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Tetrahydrofuran	34744	4	4	3	4	X	4	4	4	3	3	4	4	4	4	1
Tetralin	9746	4	4	4	1	X	4	4	X	X	4	4	4	1	4	1
Tetramethyl Ammonium Hydroxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Tetramethylcyclotetrasiloxane (TMCTS)	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tetramethyldihydropyridine	9848	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Tetraphosphoglucosate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Tetraphosphoric Acid	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Therminol® 44	9746	4	4	4	1	X	4	X	4	X	4	X	X	X	4	1
Therminol® 55	9746	2	2	4	1	X	4	X	2	X	4	X	X	X	4	1
Therminol® 66	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Therminol® FR	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Therminol® VP-1, 60, 65	9746	4	4	4	1	X	4	X	4	X	4	X	X	X	2	1
Thio Acid Chloride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Thioamyl Alcohol	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Thiodiacetic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Thioethanol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Thioglycolic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Thiokol® TP-90B	23711	4	4	1	1	X	2	4	X	X	1	X	2	2	X	1
Thiokol® TP-95	23711	4	4	1	1	X	2	4	X	X	1	X	2	2	X	1
Thionyl Chloride	5747	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1

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Compound Worksheet



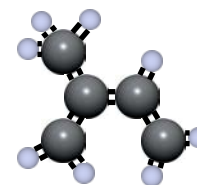
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Thiophene (Thiofuran)	5747	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Thiophosphoryl Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Thiourea	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Thorium Nitrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Tidewater® Multigear, 140 EP Lube	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Tidewater® Oil-Beedol	3720	1	1	4	1	X	2	4	1	1	4	4	4	1	2	1
Tin Ammonium Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Tin Chloride	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Tin Tetrachloride	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Titanic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Titanium Dioxide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Titanium Sulfate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Titanium Tetrachloride	9746	2	2	4	1	X	4	4	4	4	4	4	4	2	4	1
Toluene	8782	4	4	4	2	4	4	4	4	4	4	4	4	2	4	1
Toluene Bisodium Sulfite	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Toluene Diisocyanate (TDI)	23711	4	4	2	4	X	4	4	4	X	2	4	4	4	4	1
Toluene Sulfonyl Chloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	X
Toluenesulfonic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Toluidine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	X
Toluol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Toluquinone	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	X
Tolylaldehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Transformer Oil	55715	1	1	4	1	X	2	4	2	1	4	4	3	1	2	1
Transmission Fluid Type A	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Triacetin	23711	2	2	1	4	X	2	2	4	4	1	2	2	4	X	1
Triaryl Phosphate	23711	4	4	1	1	X	4	4	4	4	1	4	4	2	3	1
Tribromomethylbenzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	X
Tributoxyethyl Phosphate	23711	4	4	1	1	X	4	2	4	4	1	2	4	2	X	1
Tributyl Citrate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Tributyl Mercaptan	9746	4	4	4	1	X	4	4	4	X	4	4	4	3	4	1
Tributyl Phosphate	23711	4	4	2	4	1	4	4	4	4	2	2	4	4	4	1
Tributylamine	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Trichloroacetic Acid	23711	2	2	2	4	X	4	2	4	4	2	3	4	4	X	1
Trichloroacetyl Chloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	X
Trichlorobenzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	X
Trichloroethane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Trichloroethanolamine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Trichloroethylene	9746	4	3	4	1	4	4	4	4	4	4	4	4	2	4	1
Trichloromethane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	X

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Compound Selection Guide

Compound Worksheet



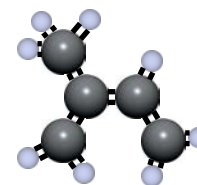
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Trichloronitromethane (Chloropicrin)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	X
Trichlorophenylsilane	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Trichloropropane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	X
Trichlorosilane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	X
Tricresyl Phosphate	9746	4	4	4	1	1	3	1	4	4	1	4	4	2	3	1
Triethanol Amine	23711	2	3	1	4	1	1	2	4	4	2	2	2	4	X	1
Triethyl Phosphate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Triethylaluminum	34860	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
Triethylborane	8782	4	X	3	1	X	4	4	4	4	3	4	4	X	X	1
Triethylene Glycol	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Triethylenetetramine	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Trifluoroacetic Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	2
Trifluoroethane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Trifluoromethane	9746	4	4	4	1	X	4	4	4	4	4	4	4	2	4	1
Trifluorovinylchloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Triisopropylbenzylchloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Trimethylamine (TMA)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	2
Trimethylbenzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Trimethylborate (TMB)	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Trimethylpentane	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Trinitrotoluene (TNT)	9746	4	4	4	2	X	2	4	4	X	4	4	2	2	X	1
Trioctyl Phosphate	23711	4	X	1	2	X	4	4	4	4	1	4	4	2	3	1
Triphenylphosphite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Tripoly Phosphate	23711	4	4	1	2	X	3	4	4	4	1	4	4	1	3	1
Tripotassium Phosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Trisodium Phosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Tung Oil (China Wood Oil)	3720	1	1	3	1	X	2	4	X	3	3	4	3	2	4	1
Turbine Oil	3720	2	1	4	1	X	4	4	1	1	4	4	4	2	4	1
Turbine Oil #15 (MIL-L-7808A)	9746	2	2	4	1	X	4	4	2	4	4	4	4	2	4	X
Turbo Oil #35	3720	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
Turpentine	5780	1	1	4	1	3	4	4	2	4	4	4	4	2	4	1
Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A)	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Type II Fuel (MIL-S-3136)	5747	2	2	4	1	X	4	4	3	2	4	4	4	2	4	1
Type III Fuel (MIL-S-3136)(ASTM Ref. Fuel B)	5747	2	2	4	1	X	4	4	3	2	4	4	4	2	4	1
UPDI (Ultra Pure Deionized Water)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Ucon™ Hydrolube J-4	3720	1	1	1	1	X	2	1	4	4	1	X	X	2	1	1
Ucon™ Lubricant 50-HB	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Ucon™ Lubricant LB-1145	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Ucon™ Lubricant LB-135	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1

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Compound Selection Guide

Compound Worksheet



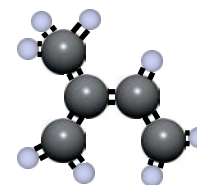
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFE/P)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Ucon™ Lubricant LB-285	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Ucon™ Lubricant LB-300X	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Ucon™ Lubricant LB-625	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Ucon™ Lubricant LB-65	3720	1	1	1	1	X	1	2	X	X	1	2	2	1	1	1
Ucon™ Oil 50-HB-280x	23711	2	2	1	3	1	2	X	X	X	X	X	X	X	X	1
Ucon™ Oil Heat Transfer Fluid 500	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Ucon™ Oil LB-385	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Ucon™ Oil LB-400X	3720	1	1	1	1	X	1	1	X	X	1	1	1	1	1	1
Undecylenic Acid	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Undecylic Acid	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Univis™ 40 (Hydr. Fluid)	3720	1	1	4	1	X	2	4	1	1	4	4	2	1	4	1
Univolt™ #35 (Mineral Oil)	5747	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
Unsymmetrical Dimethyl Hydrazine (UDMH)	23711	2	2	1	4	X	2	1	X	X	1	1	1	4	4	1
Uric Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
VV-H-910	23711	2	3	1	1	X	2	1	2	3	2	2	2	2	4	1
Valeraldehyde	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Valeric Acid	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Vanadium Oxide	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Vanadium Pentoxide	5747	1	1	4	1	X	2	4	1	1	4	4	2	1	2	1
Varnish	9848	2	2	4	1	X	4	4	4	3	4	4	4	2	4	1
Vegetable Oil	3741	1	1	3	1	X	3	4	1	X	3	4	2	1	2	1
Versilube® F-50	23711	1	1	1	1	X	1	1	1	1	1	1	1	1	3	1
Versilube® F44, F55	3720	1	1	1	1	1	1	X	X	X	X	X	X	X	X	1
Vinegar	23711	2	2	1	1	X	2	2	4	4	1	2	1	3	1	1
Vinyl Acetate	23711	2	2	1	3	1	2	X	X	X	X	X	X	X	X	1
Vinyl Benzene	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Vinyl Benzoate	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Vinyl Chloride	9746	4	X	4	1	2	4	4	4	4	4	4	4	X	X	1
Vinyl Fluoride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Vinylidene Chloride	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Vinylpyridine	9746	2	2	4	1	X	4	4	4	3	4	4	4	2	X	1
Vitriol - White (Zinc Sulfate)	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Wagner 21B Brake Fluid	23747	3	3	1	4	X	2	1	X	X	2	2	2	4	3	1
Water	23761	1	1	1	1	1	1	1	4	3	1	1	1	1	1	1
Wemco® C	3720	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
Whiskey and Wines	3741	1	1	1	1	X	1	1	4	2	1	1	1	1	1	1
White Liquor	3720	1	1	1	1	1	1	X	X	X	X	X	X	X	X	1
White Oil	3720	1	1	4	1	X	2	4	1	1	4	4	4	1	4	1
White Pine Oil	3720	2	X	4	1	X	4	4	X	X	4	4	4	1	4	1

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Compound Selection Guide

Compound Worksheet



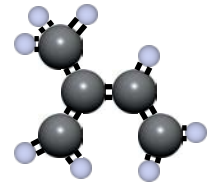
Fluid Name	Recommended Compound	Nitrile (NBR)	HNBR	EPDM	Fluorocarbon (FKM)	Aflas® (FEPM or TFEF)	Neoprene® (CR)	SBR	Polyacrylate (ACM)	Polyurethane (AU/EU)	Butyl (IIR)	Natural (NR)	Hypalon® (CSM)	Fluorosilicone (FVMQ)	Silicone (VMQ)	Perfluorocarbon (FFKM)
Wolmar Salt	5747	1	1	1	1	X	2	1	2	1	1	1	1	1	1	1
Wood Alcohol	5747	1	1	1	4	X	1	1	4	4	1	1	1	1	1	1
Wood Oil	5780	1	X	4	1	X	2	4	1	3	4	4	3	2	4	1
Xenon	5747	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1
Xylene	9746	4	4	4	1	3	4	4	4	4	4	4	4	1	4	1
Xylidenes-Mixed-Aromatic Amines	23711	3	3	2	4	X	3	3	4	4	3	3	4	4	4	1
Xylol	9746	4	4	4	1	X	4	4	4	4	4	4	4	1	4	1
Zeolites	5747	1	1	1	1	X	1	1	X	X	1	1	1	1	X	1
Zinc Acetate	23711	2	2	1	4	X	2	4	4	4	1	1	1	4	4	1
Zinc Ammonium Chloride	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zinc Chloride	5780	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1
Zinc Chromate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zinc Cyanide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zinc Diethyldithiocarbamate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zinc Dihydrogen Phosphate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zinc Fluorosilicate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Zinc Hydrosulfite	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zinc Naphthenate	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Zinc Nitrate	5747	1	1	1	1	X	X	1	4	X	1	1	1	1	X	1
Zinc Oxide	5747	1	1	1	1	X	X	1	4	X	1	1	1	1	X	1
Zinc Phenolsulfonate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zinc Phosphate	5747	1	1	1	1	X	1	1	4	1	1	1	1	1	1	1
Zinc Salts	5747	1	1	1	1	X	1	1	4	1	1	1	1	1	1	1
Zinc Silicofluoride	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Zinc Stearate	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zinc Sulfate	5780	1	1	1	1	1	1	2	4	X	1	2	1	1	1	1
Zinc Sulfide	23711	3	3	1	3	X	1	1	4	4	1	1	1	1	2	1
Zirconium Nitrate	5747	1	1	1	1	X	1	2	4	4	1	2	1	1	1	1

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Compound Selection Guide

Compound Worksheet



Name _____ Address _____
Company _____ City/St/Zip _____
Phone _____ Fax _____

Application _____ Static _____
_____ Dynamic _____
_____ Rotary _____

Normal Operating Pressure Range _____ (psi) _____ (BAR)
Maximum Pressure _____ (°F) _____ (°C)
Vacuum _____ (Torr) _____

Normal Operating Temperature _____ (°F) _____ (°C)
Maximum Temperature _____ (°F) _____ (°C)
Minimum Temperature _____ (°F) _____ (°C)

Acids _____	Hydraulic Fluid _____
Bases _____	Phosphate Ester _____
Petroleum _____	Silicone Oil _____
Water/Glycol _____	Refrigerants _____
Chemicals _____	Water _____
Ozone _____	Fuels _____
Light _____	Food/Medical Contact _____
Steam _____	Low Friction _____
Abrasion Resistance _____	High Friction _____
Color _____	Conductive _____
Specification _____	Other _____

PAI Customer Service Representative: _____

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