

... Cold Ammonia, Hot Ammonia, Anhydrous Ammonia, Aqueous Ammonium C  
Sulfide Amyl Acetate Amyl Alcohol Aniline, Aniline Oil Aniline Dyes Arsenic  
Benzene, Benzol Benzin Benzoic Acid Benzyl Alcohol Black Sulfate Liquor Blk  
Butylaldehyde Calcium Acetate Calcium Bisulfate Calcium Chloride Calcium Hydroxide Ca  
Carbon Dioxide Carbon Disulfide Carbon Monoxide Carbon Tetrachloride Castor Oil Cellosolve Aceta  
O-Chlorophenol Chlorosulfonic Acid Chrome Plating Solution Chromic Acid Citric Acid Coke Ove  
Oil Cyclohexanol Cyclohexanone Detergent/Water Solution Diacetone Alcohol (Acetol) Dibenz  
cohol (Ethanol) Ethyl Acetate Ethyl Benzene Ethyl Cellulose Ethyl Chloride Ethylene Dichlorid  
Furfural Gallic Acid  
Glycol Straight Phosph  
Hydrogen Peroxide Hyd  
Lubricating Oils See H  
Methyl Chloride Meth  
MIL-L-23699 MIL-L  
Nitrobenzene Nitr  
Perchloric Acid Per  
Potassium Hydroxide, to 1  
Refrigerant R-13  
Sodium Hydroxide, ove  
Sodium Thiosulfate

**EU067B**  
(supersedes EU067A)



## Fluid Compatibility

... Acid, over 10 % Sulfurous Acid Tannic Acid Tar (Bituminous) Tartaric Acid Tertiary Butyl Alcohol  
Tung Oil Turpentine Varnish Vinyl Chloride Water (to +65 °C) Water (+65 à +176 °C) Water (+5  
Acetone Acetophenone Acetyl Acetone Acetyl Chloride Acetylene Air, Hot (Up to +71 °C) Air, Hot (5  
Sulfate Aluminium Sulfate Alums Ammonia, Cold Ammonia, Hot Ammonia, Anhydrous Ammonia  
Ammonium Phosphate Ammonium Sulfate/Sulfide Amyl Acetate Amyl Alcohol Aniline, Aniline C  
Chloride Barium Hydroxide Barium Sulfide Benzene, Benzol Benzin Benzoic Acid Benzyl Alcoh  
yl Alcohol Butyl Cellosolve Butylene Butyl Stearate Butylaldehyde Calcium Acetate Calcium Bisu  
Liquors Carbitol Carboic Acid Carbonic Acid Carbon Dioxide Carbon Disulfide Carbon Monoxide Ca  
Acid Chloracetone Chlorobenzene Chloroform O-Chlorophenol Chlorosulfonic Acid Chrome Pla  
Sulfate Cotton Seed Oil Creosote (Coal Tar) Crude Oil Cyclohexanol Cyclohexanone Detergent/Wat  
P) Dowtherm A&E Dowtherm 209 Ethyl Alcohol (Ethanol) Ethyl Acetate Ethyl Benzene Ethyl Ce  
Sulfate Formaldehyde Formic Acid Fuel Oil Furfural Gallic Acid Gasoline Gasohol Glycerine/Glyce  
Base Water Petroleum Emulsion Water Glycol Straight Phosphate Ester Phos.Ester/Petroleum  
Acid Hydrofluorosilic Acid Hydrogen Hydrogen Peroxide Hydrogen Sulfide, Dry Isocyanate Iso  
Solvents Lime Sulfur Linseed Oil LPG Lubricating Oils See Hydraulic Oils Magnesium Chlorid  
Chloride Mercury Methanol Methyl Bromide Methyl Chloride Methyl Butyl Ketone Methyl Ethyl K  
-L-2104 MIL-H-5606 MIL-H-6083 MIL-L-7808 MIL-L-23699 MIL-H-46170 MIL-H-83282 Miner  
Sulfate Nitric Acid, to 10 % Nitric Acid, over 10 % Nitrobenzene Nitrogen Octyl Alcohol Oleic Ac  
Gen Palmitic Acid Para-Dichlorobenzene Pentane Perchloric Acid Perchloroethylene Phenol (Car  
cium Cyanide Potassium Dichromate Potassium Hydroxide, to 10 % Potassium Hydroxide, over 1  
erant R-12 Refrigerant R-13 Refrigerant R-22 Refrigerant R-134a Sewage Soap (Water Solution  
Cyanide Sodium Hydroxide, to 10 % Sodium Hydroxide, over 10 % Sodium Hypochlorite Sodi  
Silicate Sodium Sulfate Sodium Sulfide Sodium Thiosulfate Soy Bean Oil Stannic Chloride Stea  
r Trioxide Sulfuric Acid, to 10 % Sulfuric Acid, over 10 % Sulfurous Acid Tannic Acid Tar (Bitu  
ene Tricresyl Phosphate Trianthanolamine Tung Oil Turpentine Varnish Vinyl Chloride Water (5  
Hyde Acetic Acid, 10 % Acetic Acid, Glacial Acetone Acetophenone Acetyl Acetone Acetyl Chlorid  
Chloride Aluminium Fluoride Aluminium Nitrate Aluminium Sulfate Alums Ammonia, Cold Amm  
e Ammonium Hydroxide Ammonium Nitrate Ammonium Phosphate Ammonium Sulfate/Sulfid  
#2 ASTM#3 Automatic Trans. Fluid Barium Chloride Barium Hydroxide Barium Sulfide Benzen  
Acid Brine Bromine Butane Butyl Acetate Butyl Alcohol Butyl Cellosolve Butylene Butyl Steara  
Hypochlorite Calcium Nitrate Cane Sugar Liquors Carbitol Carboic Acid Carbonic Acid Carbo  
nina Wood Oil (Tung Oil) Chlorine Chloroacetic Acid Chloracetone Chlorobenzene Chloroform (C  
Gas Copper Chloride Copper Cyanide Copper Sulfate Cotton Seed Oil Creosote (Coal Tar) Crude C  
er Diesel Oil Diethylamine Dioctyl Phthalate (DOP) Dowtherm A&E Dowtherm 209 Ethyl Alcoh  
ate Formaldehyde Formic Acid Fuel Oil Furfural Gallic Acid Gasoline Gasohol Glycerine/Glycer  
se Water Petroleum Emulsion Water Glycol Straight Phosphate Ester Phos.Ester/Petroleum Blen  
d Hydrofluorosilic Acid Hydrogen Hydrogen Peroxide Hydrogen Sulfide, Dry Isocyanate Iso Octan  
ts Lime Sulfur Linseed Oil LPG Lubricating Oils See Hydraulic Oils Magnesium Chloride Magn  
Mercury Methanol Methyl Bromide Methyl Chloride Methyl Butyl Ketone Methyl Ethyl Ketone  
104 MIL-H-5606 MIL-H-6083 MIL-L-7808 MIL-L-23699 MIL-H-46170 MIL-H-83282 Mineral Oil  
Nitric Acid, to 10 % Nitric Acid, over 10 % Nitrobenzene Nitrogen Octyl Alcohol Oleic Acid Oleu  
mic Acid Para-Dichlorobenzene Pentane Perchloric Acid Perchloroethylene Phenol (Carboic Acid  
ide Potassium Dichromate Potassium Hydroxide, to 10 % Potassium Hydroxide, over 10 % Pot  
Refrigerant R-13 Refrigerant R-22 Refrigerant R-134a Sewage Soap (Water Solutions) Sodium

## Technical Data

### Fluid compatibility

This chart indicates the suitability of various elastomers and metals for use with fluids to be conveyed. It is intended as a guide only and is not a guarantee. Final selection of the proper hose style, seal, or material of metal components is further dependent on many factors including pressure, fluid and ambient temperature, concentration, duration of exposure, etc.

### HOW TO USE THE CHART

1. The chart has separate sections for rating elastomers for use as hose inner tubes and as seals. Ratings for a given elastomer may not always be the same in both sections.
2. Both the elastomer and the metal must be considered when determining suitability of a combination for a hose assembly, adapter with O-Ring, swivel joint or coupling.
3. Locate the fluid to be conveyed and determine the suitability of the elastomeric and metal components according to the resistance ratings shown for each.
4. Specific hose part numbers can be found under the inner tube material groupings in the Hose Tube Identification Chart below.
5. Dimensional and operating specifications for each hose can be found on the catalog pages show with each hose part number.
6. Information on O-Rings and seal options for adapters, swivel joints and couplings, and how to specify them, are shown in Eaton Aeroquip catalogs.
7. For further details on the products shown in this catalog, and their applications, consult your Eaton Aeroquip Sales Engineer or Eaton Aeroquip.

## RESISTANCE RATING KEY

### E = Excellent

Fluid has little or no effect.

### G = Good

Fluid has minor to moderate effect.

### C = Conditional

Service conditions should be described to Aeroquip to determination of suitability for application.

### U = Unsatisfactory

The differences between ratings 'E' and 'G' are relative. Both indicate satisfactory service. Where there is a choice, the materials rated 'E' may be expected to give better or longer service than those rated 'G'.

### NOTE:

- Special precautions are necessary in gaseous applications due to the potential volume of gaseous fluid in the system. Unless the cover is perforated, hose styles with rubber or thermoplastic covers are not suitable for gases above 18 Bar. Hose styles with perforated covers are so noted in their construction descriptions.
- Specification subject to change without notice.
- The described compatibilities provides a temperature of environment for NBR hoses 60 °C–85 °C and for AQP hoses 70 °C–125 °C.

## HOSE TUBE IDENTIFICATION CHART

1 Synthetic rubber			
1503	2781	GH421	GH683
1525	FC254	GH466	GH735
2556	FC273	GH484	GH781
2651	FC310	GH506	GH793
2681	FC318	GH585	SH681
2755	GA512	GH586	
2755B	GA590	GH663	
2766	GH420	GH681	

2 Teflon/PTFE			
2807	FC186	FC469	
2808	FC363**	FC563	
	FC364**	FC807	
	FC465		

3 Thermoplastic Elastomer			
	FC372	FC375	FC390
	FC373	FC376	FC690
	FC374	FC377	

4 AQP			
2661	FC323	FC498	GH195
FC194	FC324	FC510	
FC195	FC325	FC619	
FC234	FC350	FC699	
FC300	FC355	GH194	

5 Special Application Hose (Not included in Fluid Chart)	
FC505	R12, R22, R134a, R404a
FC555	R12, R22, R134a, R502, R404a
FC802	R12, R22, R134a, R404a
GH134	R12, R22, R134a, R404a
GA494	R134a
FC700	Sewer Cleaning
FC701	Sewer Cleaning
FC702	Sewer Cleaning
GH435	Phosphate ester

\*\* with OTC fittings not for gas using

## SEAL ELASTOMER DATA

Seal Elastomer	Application Specification	Max. Operating Temperature Range	Shorttime
Perbunan*	none	-40 °C bis +100 °C (-40 °F to +212 °F)	+120 °C (+248 °F)
Neopren	none	-40 °C bis +100 °C (-40 °F to +212 °F)	+120 °C (+248 °F)
EPR (Ethylene Propylene Rubber)/EPDM	none	-50 °C bis +150 °C (-58 °F to +302 °F)	
Viton	MIL-R-25897	-30 °C bis +200 °C (-22 °F to +392 °F)	

\*Perbunan temperature range: -55 °C to +107 °C. Also per MIL-R-6855.

E = EXCELLENT G = GOOD C = CONDITIONAL U = UNSATISFACTORY	Synthetic rubber	Teflon	Thermoplastic Elastomer		Buna-N	Neoprene	EPR	Viton	Urethane	Hydrel	Steel	Brass	Cres	Aluminium	
	1	2	3	4										Monel	
	HOSE													SEALS	
Acetaldehyde	U	E	G	U	U	C	C	U	U	G	G	E	E	E	E
Acetic Acid, 10 %	U	E	C	G	U	U	E	G	U	C	U	U	C	C	U
Acetic Acid, Glacial	U	E	C	G	U	U	C	U	U	C	U	U	C	C	C
Acetone	U	E	G	G	U	U	G	U	U	G	E	E	E	E	E
Acetophenone	U	E	-	C	U	U	E	U	U	-	E	E	E	C	E
Acetyl Acetone	U	E	G	G	U	U	G	U	U	G	U	C	C	C	C
Acetyl Chloride	U	E	U	G	U	U	U	E	U	U	C	C	C	U	E
Acetylene	U	E	G	G	U	U	G	E	G	G	E	E	E	E	E
Air, Hot (Up to +71 °C)	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Air, Hot (71-93 °C)	C	E	G	G	G	G	E	E	G	G	E	E	E	E	E
Air, Hot (93-120 °C)	U	E	U	C	U	U	G	E	U	U	E	E	E	E	E
Air Wet	E	E	C	E	E	E	E	E	G	C	U	G	E	E	E
Aluminium Chloride	E	E	E	E	E	E	E	E	G	E	U	U	U	U	U
Aluminium Fluoride	E	E	E	E	E	E	E	E	G	E	U	U	U	E	C
Aluminium Nitrate	E	E	E	E	E	E	E	E	G	E	U	U	C	C	C
Aluminium Sulfate	E	E	G	E	E	E	E	E	-	G	U	C	E	C	C
Alums	E	E	E	E	E	E	E	E	E	E	U	C	E	C	C
Ammonia, Cold	U	C	U	U	G	E	E	U	-	-	E	U	E	E	E
Ammonia, Hot	U	C	U	U	U	G	G	U	-	-	E	U	E	E	E
Ammonia, Anhydrous	U	C	U	U	U	E	E	U	-	-	E	U	E	E	E
Ammonia, Aqueous	U	C	U	U	U	E	E	U	-	-	E	U	E	E	E
Ammonium Carbonate	U	E	C	G	U	E	E	U	-	-	C	U	C	C	C
Ammonium Chloride	E	E	C	G	E	E	E	U	-	-	U	U	C	U	C
Ammonium Hydroxide	U	C	U	C	C	C	E	C	U	U	G	U	C	C	U
Ammonium Nitrate	G	E	C	G	E	G	E	U	G	C	G	U	G	G	U
Ammonium Phosphate	E	E	C	E	E	E	E	-	G	C	U	C	G	U	G
Ammonium Sulfate/Sulfide	E	E	C	E	E	E	E	U	G	C	U	U	G	U	G
Amyl Acetate	U	E	U	U	U	U	G	U	U	U	E	E	E	E	E
Amyl Alcohol	G	E	E	E	G	C	E	G	C	E	G	G	E	U	G
Aniline, Aniline Oil	U	E	U	C	U	U	G	U	U	U	E	U	E	G	G
Aniline Dyes	U	E	U	C	U	U	G	G	U	U	U	C	G	C	G
Arsenic Acid	E	E	G	C	E	E	E	E	C	G	U	U	G	U	C
Asphalt	C	E	G	C	G	U	U	E	G	G	E	G	E	E	E
ASTM#1	E	E	E	E	E	E	C	E	E	E	E	E	E	E	E
ASTM#2	G	E	E	E	E	G	U	E	G	E	E	E	E	E	E
ASTM#3	G	E	E	E	E	G	U	E	G	E	E	E	E	E	E
Automatic Trans. Fluid	E	E	G	E	E	G	U	E	C	G	E	E	E	E	E
Barium Chloride	E	E	C	E	E	E	E	E	G	C	U	G	G	G	G
Barium Hydroxide	E	E	G	E	E	E	E	E	E	G	G	U	G	U	G
Barium Sulfide	E	E	C	E	E	E	E	E	G	C	C	U	G	U	U
Benzene, Benzol	U	E	C	C	U	U	U	E	U	C	G	E	E	G	E
Benzine	G	E	C	C	E	U	U	E	U	C	E	E	E	E	E
Benzoic Acid	U	E	C	C	U	U	U	E	C	C	U	G	G	G	G
Benzyl Alcohol	U	E	C	G	U	G	G	E	C	C	U	E	G	E	G
Black Sulfate Liquor	C	E	C	C	C	C	C	E	U	C	E	C	E	U	G
Blast Furnace Gas	U	U	C	G	U	U	U	E	U	C	E	C	E	U	U
Borax	G	E	G	G	G	G	E	E	G	G	E	E	E	G	-
Boric Acid	G	E	G	E	G	G	E	G	G	G	U	G	C	C	C
Brine	G	E	C	E	E	G	E	E	G	C	U	G	G	U	E
Bromine	U	G	U	U	U	U	U	E	U	U	U	C	U	C	C
Butane	LPG Approved Hose Only				E	E	U	E	-	-	E	E	E	E	E
Butyl Acetate	U	E	C	C	U	U	G	U	U	C	E	E	E	E	E
Butyl Alcohol	E	E	G	E	E	E	G	E	G	G	G	G	G	G	G
Butyl Cellosolve	U	E	C	G	U	U	G	U	U	C	E	E	E	E	E
Butylene	U	E	-	C	C	U	U	E	U	-	E	E	E	E	E
Butyl Stearate	U	E	-	G	G	U	U	E	-	-	G	G	G	G	G
Butyraldehyde	U	E	-	C	U	U	G	U	U	-	E	E	E	E	G
Calcium Acetate	G	E	C	E	G	G	E	U	U	C	G	G	G	C	G
Calcium Bisulfate	E	E	G	G	E	E	U	E	G	G	U	C	C	U	U
Calcium Chloride	E	E	E	E	E	E	E	E	E	E	G	G	G	C	G
Calcium Hydroxide	E	E	C	E	E	E	E	E	U	C	G	G	G	U	G
Calcium Hypochlorite	U	E	C	E	U	U	E	E	U	C	U	G	C	U	U
Calcium Nitrate	E	E	E	E	E	E	E	E	E	E	G	G	G	G	G
Cane Sugar Liquors	E	E	E	E	E	E	E	E	U	E	E	G	E	E	E
Carbitol	G	E	G	E	G	G	G	G	U	G	E	E	E	E	E
Carbolic Acid	U	E	U	C	U	U	G	E	U	U	U	E	E	-	-
Carbonic Acid	G	E	C	E	G	E	E	E	C	C	U	C	E	G	E
Carbon Dioxide	C	E	C	C	G	G	E	E	G	E	E	E	E	E	E
Carbon Disulfide	U	E	C	C	U	U	U	E	C	C	G	G	G	E	G
Carbon Monoxide	C	E	E	E	G	G	E	E	G	E	E	E	E	E	E
Carbon Tetrachloride	U	E	U	C	U	U	U	E	U	U	U	E	G	G	U
Castor Oil	E	E	G	E	E	E	G	E	G	G	E	E	E	E	E
Cellosolve Acetate	U	E	U	C	U	U	G	U	U	U	U	U	E	G	E
China Wood Oil (Tung Oil)	G	E	C	G	G	G	U	E	U	C	E	G	E	E	E
Chlorine	U	U	U	U	U	U	U	G	U	U	C	C	C	C	C

E = EXCELLENT G = GOOD C = CONDITIONAL U = UNSATISFACTORY	Synthetic rubber		Thermoplastic Elastomer		Buna-N	Neoprene	EPR	Viton	Urethane	Hydrel	Steel	Brass	Cres	Aluminium	
	Teflon	AQP		Monel											
	1	2	3	4											
FLUID	HOSE				SEALS						METAL				
Chloroacetic Acid	U	E	U	C	U	U	G	U	U	U	U	U	U	U	G
Chloracetone	U	E	U	U	U	U	E	U	U	U	G	G	G	U	G
Chlorobenzene	U	E	U	C	U	U	U	G	U	U	G	G	G	G	G
Chloroform	U	E	U	C	U	U	U	E	U	U	G	G	G	G	G
O-Chlorophenol	U	E	U	C	U	U	U	E	U	U	G	G	G	U	G
Chlorosulfonic Acid	U	E	U	U	U	U	U	U	U	U	G	U	G	G	C
Chrome Plating Solution	U	E	-	U	U	U	G	E	U	-	C	U	U	U	U
Chromic Acid	U	E	-	C	U	U	C	E	U	-	C	U	U	U	U
Citric Acid	E	E	C	E	E	E	E	E	E	C	C	C	C	C	C
Coke Oven Gas	U	E	-	G	U	U	U	E	U	-	E	C	E	U	U
Copper Chloride	C	E	E	E	C	E	E	E	G	E	U	U	U	U	U
Copper Cyanide	E	E	-	E	E	E	E	E	E	-	E	U	G	U	G
Copper Sulfate	C	E	G	E	C	E	E	E	G	G	U	C	G	U	G
Cotton Seed Oil	G	E	E	E	E	G	C	E	E	E	E	E	E	E	E
Creosote (Coal Tar)	C	E	U	G	C	U	E	U	E	U	E	C	E	E	E
Crude Oil	C	E	C	C	G	G	U	E	G	C	G	U	G	U	U
Cyclohexanol	G	E	C	E	E	G	U	E	C	C	E	E	E	C	E
Cyclohexanone	U	E	G	C	U	U	G	U	G	G	E	E	E	C	E
Detergent/Water Solution	G	E	C	E	E	E	E	E	C	C	G	E	E	E	E
Diacetone Alcohol (Acetol)	U	E	C	E	U	U	E	U	C	C	E	E	E	E	E
Dibenzyl Ether	U	E	-	C	U	U	G	U	-	-	G	G	G	G	G
Diesel Oil	C	E	C	G	E	C	U	E	C	C	E	E	E	E	E
Diethylamine	G	E	-	C	G	G	G	U	-	-	E	U	E	-	E
Diocyl Phthalate (DOP)	U	E	C	C	U	U	G	G	C	C	E	E	E	E	E
Dowtherm A&E	U	E	-	C	U	U	U	E	-	-	G	U	E	E	E
Dowtherm 209	C	E	-	E	C	G	E	U	-	-	-	-	-	-	-
Ethyl Alcohol (Ethanol)	E	E	C	E	E	E	E	E	C	C	E	E	E	G	E
Ethyl Acetate	U	E	C	C	U	U	G	U	C	C	E	E	E	E	E
Ethyl Benzene	U	E	-	C	U	U	U	E	U	-	E	G	G	G	E
Ethyl Cellulose	G	E	C	C	G	G	G	U	C	C	E	G	G	G	G
Ethyl Chloride	U	E	U	C	U	U	U	E	U	U	E	E	E	G	G
Ethylene Dichloride	U	E	U	C	U	U	U	G	U	U	G	C	G	G	G
Ethylene Glycol	G	E	C	E	E	E	E	E	C	C	U	G	E	E	E
Ferric Chloride	G	E	-	E	E	G	E	E	-	-	U	U	U	U	U
Ferric Nitrate	E	E	C	E	E	E	E	E	C	C	U	U	G	U	U
Ferric Sulfate	G	E	C	G	G	G	G	E	C	C	U	U	E	U	U
Formaldehyde	C	E	C	G	C	C	G	G	C	C	E	E	E	G	G
Formic Acid	C	E	U	E	C	G	E	U	U	U	E	C	C	C	C
Fuel Oil	G	E	E	E	E	C	U	E	G	G	E	E	E	E	E
Furfural	C	E	-	E	C	C	G	U	U	-	G	G	G	G	G
Gallic Acid	G	E	-	E	G	G	G	E	U	-	U	-	G	C	G
Gasoline	C	E	C	E	E	C	U	E	E	E	E	E	E	E	E
Gasohol	U	E	G	E	G	G	U	E	E	E	E	E	E	G	E
Glycerine/Glycerol	E	E	E	E	E	E	E	E	G	E	E	G	E	E	E
Green Sulfate Liquor	G	E	-	E	G	G	E	E	-	-	U	U	E	U	U
Helium	C	G	C	C	E	E	E	E	E	E	E	E	E	E	E
Heptane	G	E	E	E	E	G	U	E	G	G	E	E	E	E	E
Hexaldehyde	C	E	-	C	U	G	G	U	U	-	G	G	E	E	G
Hexane	G	E	E	E	E	G	U	E	G	G	E	E	E	E	E
Hydraulic Oils															
- Straight Petroleum Base	E	G	E	U	U	C	E	E	E	E	E	E	E	E	E
- Water Petroleum Emulsion	C	E	E	E	E	C	E	E	E	E	C	C	C	C	E
- Water Glycol	G	E	U	G	E	E	G	G	E	U	U	U	E	U	U
- Straight Phosphate Ester	U	E	C	U	U	U	E	E	C	C	G	G	E	E	E
- Phos.Ester/Petroleum Blend	U	E	C	C	E	U	C	E	E	E	E	G	G	E	E
- Ester Blend	C	G	U	U	U	E	E	E	C	C	E	E	E	E	-
- Silicone Oils	C	E	E	E	E	E	E	E	E	E	E	-	-	-	-
Hydrobromic Acid	U	E	U	C	U	U	E	E	U	U	E	U	-	E	U
Hydrochloric Acid	U	E	U	C	U	U	G	E	U	U	U	U	U	U	U
Hydrocyanic Acid	C	E	-	C	C	C	E	E	-	-	E	E	G	E	G
Hydrofluoric Acid	U	C	U	C	U	U	C	U	U	U	U	U	U	U	C
Hydrofluorosilic Acid	G	E	-	G	G	G	E	E	-	-	U	U	U	U	U
Hydrogen	C	C	C	C	C	E	E	E	E	E	E	E	E	E	E
Hydrogen Peroxide	C	E	G	E	C	G	G	E	G	G	U	U	G	E	U
Hydrogen Sulfide, Dry	U	C	C	G	U	G	E	U	-	G	E	G	G	G	G
Isocyanate	U	E	U	C	U	U	G	E	U	U	G	-	G	-	-
Iso Octane	G	E	E	E	E	G	U	E	G	E	E	-	E	E	E
Isopropyl Acetate	U	E	C	U	U	U	G	U	U	C	E	-	E	E	E
Isopropyl Alcohol	G	E	C	E	G	G	E	E	U	C	E	E	E	G	E
Isopropyl Ether	C	E	-	C	G	U	U	U	C	-	G	G	G	-	-

E = EXCELLENT G = GOOD C = CONDITIONAL U = UNSATISFACTORY	Synthetic rubber		Teflon		Thermoplastic Elastomer		AQP		Buna-N		Neoprene		EPR		Viton		Urethane		Hybrl		Steel		Brass		Cres		Aluminium		Monel		
	1	2	3	4																											
	FLUID				HOSE				SEALS								METAL														
JP-4, JP-5	C	E	G	G	E	U	U	E	U	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Kerosene	C	E	G	G	E	U	U	E	U	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Lacquer/Lacquer Solvents	U	E	C	C	U	U	U	U	U	G	U	E	E	E	E	E	E	E	E	E	E	U	E	E	E	E	E	E	E	E	E
Lime Sulfur	C	E	C	E	U	E	E	E	C	C	G	U	G	-	U							G	U	G	-	U					
Linseed Oil	G	E	G	E	E	G	U	E	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
LPG	G	-	-	-	E	G	U	E	-	-	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Lubricating Oils	See Hydraulic Oils																														
Magnesium Chloride	E	E	C	E	E	E	E	E	C	C	E	C	C	E	E	E	E	E	E	E	E	C	C	E	G	G	E	E	E	E	
Magnesium Hydroxide	G	E	C	E	G	G	E	E	C	C	E	G	E	E	C	C	E	G	E	E	E	E	G	E	E	G	G	E	E	E	E
Magnesium Sulfate	E	E	C	E	E	E	E	E	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Maleic Acid	U	E	C	G	U	U	U	E	C	C	E	G	G	E	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E	E	
Maleic Anhydride	U	E	C	G	U	U	U	E	C	C	G	U	E	E	E	E	E	E	E	E	E	U	E	E	E	E	E	E	E	E	
Malic Acid	G	E	-	G	G	G	U	G	-	-	U	-	E	U							U	-	E	G	E						
Mercuric Chloride	E	E	E	E	E	E	E	E	E	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Mercury	E	E	E	E	E	E	E	E	E	E	E	U	U	U	U	U	U	U	U	U	E	U	U	U	U	U	U	U	U	U	
Methanol	G	E	C	G	G	G	E	U	C	C	E	G	E	E	E	E	E	E	E	E	E	G	E	E	E	E	E	E	E	E	
Methyl Bromide	U	E	U	C	G	U	U	E	U	U	E	E	G	U	U	U	U	U	U	U	E	E	G	U	E						
Methyl Chloride	U	E	U	C	U	U	U	E	U	U	E	E	E	U	U	U	U	U	U	U	E	E	E	U	E						
Methyl Butyl Ketone	U	E	C	C	U	U	E	U	C	C	E	E	E	E	E	E	E	E	E	E	E	E	E	-	E						
Methyl Ethyl Ketone	U	E	C	C	U	U	E	U	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Methylene Chloride	U	E	U	C	U	U	U	G	U	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Methyl Isobutyl Ketone	U	E	U	C	U	U	G	U	U	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Methyl Isopropyl Ketone	U	E	U	C	U	U	G	U	U	U	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Methyl Salicylate	U	E	-	U	U	U	C	U	-	-	E	G	G	E	G						E	G	G	E	G						
MIL-L-2104	E	E	E	E	E	G	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	-	E						
MIL-H-5606	E	E	E	E	E	G	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
MIL-H-6083	E	E	E	E	E	E	U	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	-	E						
MIL-L-7808	C	E	G	G	G	U	U	E	G	G	G	G	E	-	-	-	-	-	-	-	E	E	E	-	E						
MIL-L-23699	C	E	-	G	G	U	U	E	-	-	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
MIL-H-46170	G	E	-	G	E	G	U	E	-	-	E	E	E	-	-	-	-	-	-	-	E	E	E	-	E						
MIL-H-83282	E	E	-	G	E	E	U	E	-	-	E	E	E	-	-	-	-	-	-	-	E	E	E	-	E						
Mineral Oils	E	E	G	E	E	G	U	E	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Naphtha	U	E	G	C	C	U	U	E	C	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphtalene	U	E	G	C	U	U	U	E	C	G	E	G	E	E	E	E	E	E	E	E	E	G	E	G	G	G	G	G	G	G	
Naphthenic Acid	U	E	-	C	C	U	U	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Natural Gas	C	U	C	G	E	E	U	E	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Nickel Acetate	U	E	U	G	C	C	E	G	U	U	G	C	E	G	E	E	E	E	E	E	E	C	E	G	E	E	E	E	E	E	
Nickel Chloride	G	E	U	E	E	E	E	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Nickel Sulfate	E	E	U	E	E	E	E	E	U	U	U	G	U	U	U	U	U	U	U	U	U	G	U	U	U	U	U	U	U	U	
Nitric Acid, to 10 %	U	E	C	C	U	U	U	E	U	C	U	U	E	U	U	U	U	U	U	U	U	U	E	U	U	U	U	U	U	U	
Nitric Acide, over 10 %	U	E	U	U	U	U	U	G	U	U	U	U	E	U	U	U	U	U	U	U	U	E	E	C	U						
Nitrobenzene	U	E	U	C	U	U	U	G	U	U	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	E	E	E	E	E	
Nitrogen	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Octyl Alcohol	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Oleic Acid	U	E	G	C	U	U	C	G	G	E	C	E	G	C	E	E	E	E	E	E	E	G	E	C	G						
Oleum (Fuming Sulfuric Acid)	U	E	U	U	U	U	U	E	U	U	G	U	G	U	U	U	U	U	U	U	U	G	U	U	U	U	U	U	U	U	
Oleum (Mineral Spirits)	E	E	G	E	E	G	U	E	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Ortho-Dichlorobenzene	U	E	-	U	U	U	U	E	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Oxalic Acid	G	E	C	G	G	G	E	E	C	C	U	C	C	U	C	C	U	C	C	C	U	C	C	C	C	C	C	C	C	C	
Oxygen	U	C	U	G	-	-	-	-	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Paltmic Acid	G	E	E	-	E	G	G	E	-	E	G	-	E	G							G	-	E	G	G						
Para-Dichlorobenzene	U	E	-	U	U	U	U	E	-	-	G	G	G	E	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E	E	
Pentane	E	E	G	E	E	E	U	E	U	G	U	G	E	E	E	E	E	E	E	E	E	G	E	E	E	E	E	E	E	E	
Perchloric Acid	C	E	U	G	E	G	E	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
Perchloroethylene	U	E	U	U	U	U	U	E	U	U	C	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	
Phenol (Carbolic Acid)	U	E	U	E	U	U	G	E	U	U	U	E	E	E	E	E	E	E	E	E	U	E	E	E	E	E	E	E	E	E	
Phosphoric Acid	U	E	U	E	U	U	G	E	U	U	U	U	E	E	E	E	E	E	E	E	U	E	E	E	E	E	E	E	E	E	
Phosphorous Trichloride	U	E	U	C	U	U	E	E	U	U	C	U	C	E	E	E	E	E	E	E	U	C	E	E	E	E	E	E	E	E	
Potassium Acetate	G	E	-	E	G	G	E	U	-	-	E	C	G	C	E	E	E	E	E	E	E	C	E	U	G						
Potassium Chloride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	C	E	U	G						
Potassium Cyanide	E	E	E	E	E	E	E	E	E	E	C	U	G	U	C						U	G	U	C							
Potassium Dichromate	C	E	E	E	E	E	E	E	E	E	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Potassium Hydroxide, to 10 %	G	E	C	E	G	G	E	G	C	C	G	G	G	U	E						G	G	G	U	E						
Potassium Hydroxide, over 10 %	C	E	U	C	C	C	E	U	U	U	G	G	G	U	U	U	U	U	U	U	G	G	G	U	E						
Potassium Nitrate	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E	E	E	G	G	E	G	-						
Potassium Sulfate	E	E	E	E	E	E	E	E	E	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propane	G	-	-	-	C	-	-	-	-	-	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Propyl Acetate	U	E	-	G	U	U	G	U	-	-	E	-	E	E							E	-	E	E	E						

	Synthetic rubber				Buna-N	Neoprene	EPR	Viton	Urethane	Hydrel	Steel	Brass	Cres	Aluminium	Monel
	Teflon		Thermoplastic Elastomer												
	1	2	3	4											
E = EXCELLENT G = GOOD C = CONDITIONAL U = UNSATISFACTORY															
FLUID	HOSE				SEALS					METAL					
Propyl Alcohol	E	E	U	E	E	E	E	E	U	U	E	E	E	E	E
Propylene	U	E	-	U	U	U	U	E	-	-	E	E	E	E	E
Refrigerant R-22	U	C	U	U	U	E	C	U	U	U	E	E	E	E	E
Sewage	E	E	E	E	E	E	E	E	U	E	G	G	G	G	G
Soap (Water Solutions)	E	E	C	E	E	E	E	E	C	C	E	E	E	U	E
Sodium Acetate	G	E	-	E	G	G	E	U	-	-	E	E	G	E	E
Sodium Bicarbonate	E	E	E	E	E	E	E	E	E	E	G	G	E	G	E
Sodium Borate	E	E	E	E	E	E	E	E	E	E	E	E	E	G	-
Sodium Carbonate	E	E	E	E	E	E	E	E	E	E	E	G	E	U	E
Sodium Chloride	E	E	E	E	E	E	E	E	E	E	U	C	C	C	E
Sodium Cyanide	E	E	E	E	E	E	E	E	E	E	E	-	C	U	U
Sodium Hydroxide, to 10 %	C	E	G	C	U	G	E	E	G	G	C	G	C	U	C
Sodium Hydroxide, over 10 %	U	E	C	C	U	U	G	E	C	C	C	C	C	U	C
Sodium Hypochlorite	C	E	C	G	C	C	E	C	C	C	U	U	U	U	C
Sodium Metaphosphate	E	E	E	E	E	E	E	E	E	E	E	G	G	U	G
Sodium Nitrate	G	E	E	E	G	G	E	-	E	E	E	C	E	E	E
Sodium Perborate	G	E	-	E	G	G	E	E	-	-	C	U	C	U	C
Sodium Peroxide	C	E	-	E	C	G	E	E	U	-	U	U	C	C	C
Sodium Phosphates	E	E	E	E	E	E	E	E	E	E	U	E	G	U	E
Sodium Silicate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Sodium Sulfate	E	E	E	E	E	E	E	E	E	E	C	G	G	G	G
Sodium Sulfide	E	E	E	E	E	E	E	E	E	E	C	U	C	U	G
Sodium Thiosulfate	G	E	E	E	G	E	E	E	E	E	U	U	C	G	E
Soy Bean Oil	G	E	G	E	E	G	U	E	G	G	E	E	E	E	E
Stannic Chloride	E	E	C	E	E	G	E	E	C	C	U	U	U	U	U
Steam (up to 196 °C)	U	E	U	U	U	U	C	C	U	U	E	E	E	G	E
Stearic Acid	C	E	G	G	G	G	E	E	G	G	C	C	E	C	E
Stoddard Solvent	G	E	U	E	E	G	U	E	U	U	E	E	E	E	E
Styrene	U	E	U	C	U	U	U	G	U	U	E	E	E	E	E
Sulfur	U	E	G	C	U	C	G	E	G	G	E	U	G	E	E
Sulfur Chloride	U	E	-	C	U	U	U	E	-	-	G	-	G	G	U
Sulfur Dioxide	U	E	U	C	U	U	G	E	U	U	E	G	G	E	G
Sulfur Trioxide	U	E	U	C	U	U	G	E	U	U	G	C	G	G	G
Sulfuric Acid, to 10 %	U	E	U	U	U	G	U	E	C	C	U	G	C	-	E
Sulfuric Acid, over 10 %	U	E	U	U	U	U	U	G	U	U	C	C	U	U	C
Sulfurous Acid	C	E	U	G	C	C	U	U	U	U	U	C	C	C	U
Tannic Acid	E	E	G	E	E	E	E	E	G	G	E	E	E	C	E
Tar (Bituminous)	C	E	G	C	G	U	U	E	G	G	E	G	E	E	E
Tartaric Acid	G	E	G	E	E	G	G	E	G	G	U	C	C	E	E
Tertiary Butyl Alcohol	G	E	G	G	G	G	G	E	G	G	G	G	G	G	G
Titanium Tetrachloride	U	E	-	U	C	U	U	E	-	-	E	U	G	U	G
Toluene (Toluol)	U	E	U	U	U	U	U	E	U	U	E	E	E	E	E
Trichlorethylene	U	E	U	U	U	U	U	E	U	U	E	G	E	E	E
Tricresyl Phosphate	U	E	U	G	U	U	E	G	U	U	E	-	C	-	G
Triathanolamine	C	E	U	E	C	U	E	U	U	U	E	U	E	E	E
Tung Oil	G	E	C	G	G	G	U	E	U	C	E	G	E	E	E
Turpentine	U	E	C	C	G	G	U	E	G	G	G	G	G	G	G
Varnish	C	E	G	-	G	U	U	E	G	G	E	G	E	E	E
Vinyl Chloride	U	E	U	U	U	U	U	E	U	U	E	U	C	E	E
Water (to +70 °C)	E	E	E	E	E	E	E	E	E	E	C	G	E	G	E
Water (+70 to +95 °C)	G	E	U	G	G	G	E	E	U	U	C	G	E	G	E
Water (+95 to +120 °C)	U	E	U	U	U	U	U	G	U	U	C	G	E	G	E
Xylene	U	E	C	U	U	U	U	E	U	C	E	E	E	E	E
Zinc Chloride	E	E	E	E	E	E	E	E	E	E	E	U	U	C	G
Zinc Sulfate	E	E	-	E	E	E	E	E	-	-	U	C	G	C	G

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