

# CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

**WARNING:** The following data has been compiled from generally available sources and should not be relied upon without consulting and following the hose manufacturer's specific chemical recommendations. Neglecting to do so might result in failure of the hose to fulfill its intended purpose, and may result in possible damage to property and serious bodily injury.

Elastomer / Plastics			
<b>NR</b>	Natural Rubber	<b>EPDM</b>	Ethylene-propylene-diene-terpolymer
<b>IR</b>	Isoprene (synthetic)	<b>FKM</b>	Fluorocarbon rubber (Viton®*)
<b>SBR</b>	Styrene-butadiene	<b>UHMW</b>	Ultra High Molecular Weight Polyethylene
<b>CR</b>	Chloroprene (Neoprene®*)	<b>XLPE</b>	Cross-Linked polyethylene
<b>NBR</b>	Nitrile-butadiene (Buna-N)	<b>CSM</b>	Chloro-sulfonyl-polyethylene (Hypalon)
<b>IIR</b>	Isobutene-isoprene (Butyl)		

\*Trademark of DuPont Inc.

Resistance Rating			
<b>E</b>	Excellent	<b>C</b>	Acceptable
<b>G</b>	Good	<b>X</b>	Unsatisfactory
<b>F</b>	Fair	<b>N</b>	No Data

**Maximum temperature  
100°F (38°C)  
unless otherwise specified.**



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	S N I C P L W								S N I C P L W								
	B C		B I		S D		P P		B C		B I		S D		P P		
	R R	R R	R R	R R	M M	M M	E E	E E	R R	R R	R R	R R	M M	M M	E E	E E	
Absorption Oil	X	X	G	E	X	G	X	G	G	E	E	E	E	E	E	E	E
Acetal	C	C	C	X	G	C	C	G	G	E	E	E	E	E	E	N	N
Acetaldehyde	C	X	F	X	E	C	G	E	G	G	E	E	E	E	E	E	E
Acetamide	C	C	G	G	E	G	E	E	E	N	N	N	N	N	N	N	G
Acetate Solvents	C	X	X	X	C	X	C	E	E	N	N	N	N	N	N	N	N
Acetic Acid 10%	X	X	G	X	G	G	G	E	G	G	N	N	G	E	G	N	E
Acetic Acid 30%	X	X	C	G	G	G	G	E	E	N	N	N	N	E	N	G	G
Acetic Acid 50%	X	X	C	C	G	X	G	E	G	E	C	E	G	E	G	E	E
Acetic Acid, Glacial	X	X	C	X	G	X	X	G	G	X	N	N	E	E	E	E	E
Acetic Aldehyde	X	N	N	N	G	X	E	E	E	G	G	E	E	E	E	E	E
Acetic Anhydride	X	X	G	X	E	G	E	E	G	G	G	G	G	G	E	E	E
Acetic Ester (Ethyl Acetate)	X	X	X	X	G	X	G	E	E	E	E	G	E	E	E	E	E
Acetic Ether (Ethyl Acetate)	X	X	X	X	G	C	G	E	E	E	N	N	N	N	N	N	N
Acetic Oxide (Acetic Anhydride)	X	X	X	X	C	G	G	E	E	N	N	N	N	G	N	G	G
Acetone	C	C	F	X	E	F	E	E	E	E	E	E	C	E	E	E	E
Acetone Cyanohydrin	X	X	N	N	G	N	G	E	G	E	E	E	E	E	E	E	E
Acetophenone	C	X	X	X	E	X	E	G	G	E	N	N	N	N	N	N	N
Acetyl Acetone	X	X	X	X	G	X	E	E	E	G	G	E	G	E	G	E	E
Acetyl Chloride	X	X	X	X	C	X	C	G	G	E	E	E	E	E	E	E	E
Acetyl Oxide	X	N	N	X	E	G	E	E	G	G	E	E	E	E	E	E	E
Acetyl-P-Toluidine	X	X	N	N	X	N	X	E	E	E	E	E	E	E	E	E	E
Acetylene	E	E	G	E	E	E	E	E	E	E	X	E	X	E	E	G	E
Acetylene Dichloride (Dichloroethylene)	X	X	N	N	X	N	X	X	X	E	E	E	E	E	E	E	E
Acetylene Tetrachloride	X	X	N	N	X	N	X	X	X	E	E	E	E	E	E	E	E
Acrolein (hydroquinine inhibited)	N	N	N	N	G	N	X	E	E	E	E	E	E	E	E	E	E
Acrylamide	N	N	N	X	N	N	X	E	E	E	E	E	E	E	E	E	E
Acrylates (HEA or HPA)	N	N	N	N	N	N	X	E	E	E	E	E	E	E	E	E	E
Acrylic Acid	N	N	N	N	N	N	N	N	G	E	E	E	E	E	E	E	E
Acrylonitrile	G	X	X	X	X	X	X	G	G	E	E	E	E	E	E	E	E
Adipic Acid	N	G	G	G	E	E	G	N	N	E	E	E	E	E	E	E	E
Aeroshell 7A. 17 Grease	N	N	G	E	N	N	N	N	N	E	E	E	E	E	E	E	E
Air	E	E	E	E	E	E	E	E	E	C	X	C	G	C	X	E	E
Air, 300° F	X	X	X	X	N	X	X	N	N	X	X	G	G	X	N	X	G
Aircraft Hydraulic Oil AA	N	N	N	E	X	N	X	E	N	X	X	C	E	E	C	X	E
Alachlor (Lasso)	E	N	N	N	N	N	N	E	N	X	X	X	X	X	X	E	E
Alcohols, Aliphatic	E	G	E	E	E	E	E	E	E	X	X	X	G	X	X	E	E
Alcohols, Aromatic	C	X	C	C	X	X	X	E	E	X	X	X	X	X	X	E	E
Alkaline Liquid (NOS)	N	N	N	N	E	E	N	E	N	X	X	X	X	G	X	G	E
Alk-Tri (Trichloroethylene)	X	N	N	X	X	X	N	E	N	X	X	X	X	X	X	E	E
Alkaryl Polyether Alcohol	N	N	N	N	N	N	N	N	E	X	N	N	N	X	N	E	E
Alkyaryl Sulfonate Alkybenzene Sulfonate	E	N	N	E	N	X	N	E	E	E	E	E	E	E	E	E	E
Allyl Alcohol	E	G	E	E	E	E	E	E	E	X	X	X	X	X	X	G	G
Allyl Bromide	X	X	X	X	X	X	X	G	G	X	X	X	X	E	X	C	E
Allyl Chloride	X	X	X	X	X	X	X	G	G	X	X	X	X	X	X	X	X
Alpha Methylstyrene	X	X	X	X	X	N	X	G	G	X	X	X	X	C	X	G	E
Alpha Olefin Sulfonate	E	N	N	N	N	N	N	N	N	E	E	E	E	E	E	E	E
Alum (Ammonium Potassium Sulfate)	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Acetate	E	E	N	N	N	N	N	N	N	E	E	E	G	X	C	E	E
Aluminum Alkyl	X	X	X	X	X	X	X	X	X	X	X	X	C	C	X	C	E
Aluminum Bromide	E	E	E	E	E	E	E	E	N	X	X	X	X	X	X	E	E
Aluminum Chloride	E	E	E	E	E	E	E	E	E	X	X	X	X	X	X	E	E
Aluminum Chlorohydrate Solution (to 50%)	N	N	N	E	E	N	E	E	E	E	E	E	E	E	E	E	E
Aluminum Fluoride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Formate	X	N	N	X	G	X	N	E	E	E	E	E	E	E	E	E	E
Aluminum Hydroxide	E	E	E	E	E	G	E	E	E	E	E	E	E	E	E	E	E
Aluminum Nitrate	E	E	E	E	E	E	E	E	E	X	X	X	X	X	C	C	X
Aluminum Phosphate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Aluminum Salts	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	N	N
Aluminum Sulfate	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Aminobenzene	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	G
Aminodimethylbenzene	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Aminoethanol	G	N	N	G	E	G	N	E	G	N	E	G	N	E	G	N	E
Aminoethylethanolamine	N	N	N	N	N	E	N	G	G	E	N	G	G	E	E	E	E
Ammonia, Anhydrous	E	C	E	G	E	G	E	E	E	E	C	E	G	E	G	E	E
Ammonia Cupric Sulfate	X	N	N	E	E	E	E	E	E	X	N	N	E	E	E	E	E
Ammonia, Liquid	G	G	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E
Ammonia, in Water	G	G	G	G	G	G	E	E	E	G	G	G	E	E	E	E	E
Ammonium Acetate	E	E	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Bicarbonate	E	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Ammonium Bisulfate (50%)	N	N	N	N	G	N	G	N	G	N	G	N	G	N	G	N	G
Ammonium Carbonate	E	E	E	C	E	F	E	E	E	E	E	E	C	E	E	E	E
Ammonium Chloride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Fluoride	E	N	N	N	N	N	N	N	N	E	N	N	N	N	N	N	N
Ammonium Hydroxide	G	G	E	G	E	G	E	E	E	G	G	E	G	E	E	E	E
Ammonium Metaphosphate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Nitrate	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Nitrite	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Persulfate	E	X	E	X	E	E	E	E	E	E	X	E	X	E	E	G	E
Ammonium Phosphate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Sulfate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Sulfide	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Sulfite	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Thiocyanate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium Thiosulfate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Amyl Acetate	C	X	X	X	G	X	G	X	X	E	X	X	X	X	X	X	X
Amyl Acetone	X	X	X	X	G	X	G	X	G	E	X	X	X	X	X	E	E
Amyl Alcohol	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Amylamine	C	G	X	C	G	C	X	E	E	C	X	E	E	E	E	E	E
Amylbenzene	X	X	G	G	X	N	X	G	G	X	X	G	G	X	N	X	G
Amyl Borate	X	X	C	E	E	C	X	E	E	X	X	C	E	E	C	X	E
Amyl Chloride	X	X	X	X	X	X	X	E	E	X	X	X	X	X	X	E	E
Amyl Chloronapthalene	X	X	X	G	X	X	X	E	E	X	X	X	X	X	X	E	E
Amyl Napthalene	X	X	X	X	X	X	X	E	E	X	X	X	X	X	X	E	E
Amyl Oleate	X	X	X	X	G	X	G	X	G	E	X	X	X	X	X	E	E
Amyl Phenol	X	X	X	X	X	X	X	E	E	X	X	X	X	X	X	E	E
Amyl Phthalate	X	N	N	X	X	N	N	E	N	X	N	X	X	N	E	E	E
Anethole	X	X	X	X	X	X	X	E	E	X	X	X	X	X	X	G	G
Anhydrous Ammonia	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aniline	X	X	X	X	E	X	C	E	E	X	X	X	X	X	X	E	E
Aniline Dyes	C	C	C	C	G	C	G	E	E	C	C	C	C	X	G	E	E
Aniline Hydrochloride	E	C	X	C	C	X	G	E	E	E	C	X	C	X	G	E	E
Animal Fats	X	X	G	E	G	F	C	E	E	X	X	G	E	G	F	C	E
Animal Gelatin	N	N	E	E	N	N	N	N	N	E	N	N	N	N	N	N	N
Animal Grease	X	X	G	G	C	C	G	E	E	X	X	G	C	G	E	E	E
Animal Oils	X	X	X	E	G	X	C	E	E	X	X	X	E	G	X	C	E
Ansul Ether	X	X	X	C	C	X	C	E	E	X	X	X	C	C	X	C	E
Antifreeze (Ethylene Glycol)	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Antimony Trichloride	X	X	G	G	E	G	G	E	G	X	X	X	X	X	X	E	G
Ant Oil (Furfural)	X	X	G	X	X	G	X	E	N	X	X	X	X	X	X	E	N
Antimony Pentachloride	X	X	X	X	C	X	C	G	G	X	X	X	X	X	X	G	G
Antimony Salts	N	N	N	G	E	N	E	E	N	E	N	E	E	E	E	E	N
Aqua Ammonia	G	G	G	G	E	E	E	E	E	E	E	E	E	E	E	E	E
Aqua Regia	X	X	X	X	X	C	C	X	G	X	X	X	X	C	C	X	G

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	S N I C P L W									S N I C P L W								
	N	B	C	B	I	S	D	P	P	N	B	C	B	I	S	D	P	P
	R	R	R	R	R	M	M	E	E	R	R	R	R	R	M	M	E	E
Argon	X	X	X	C	G	X	E	N	N	X	X	X	X	X	C	X	X	X
Arguad	E	E	E	E	E	E	E	E	E	X	X	G	C	C	E	C	E	E
Aromatic Hydrocarbons	X	X	X	C	X	X	X	E	E	X	X	X	X	X	X	X	C	C
Aromatic Tar	X	N	N	X	X	X	X	E	E	X	X	N	N	X	X	X	X	X
Arsenic Acid	E	E	E	E	E	E	E	E	E	X	X	X	X	X	X	X	X	X
Arsenic Chloride	X	X	E	C	X	X	G	X	X	X	N	N	N	N	N	N	N	N
Arsenic Trichloride	X	X	E	C	X	X	G	X	X	N	N	N	N	N	N	N	N	N
Asphalt	X	X	G	E	X	X	G	G	G	X	X	G	E	X	X	X	E	E
ASTM Fuel A	X	X	E	E	X	G	X	N	N	X	X	F	X	X	C	X	F	F
ASTM Fuel B	X	X	X	E	X	X	X	N	N	N	N	N	N	N	N	N	E	G
ASTM Fuel C	X	X	X	G	X	X	X	N	N	X	X	E	E	E	G	X	E	N
ASTM Oil No. 1	X	X	E	E	X	G	X	E	E	N	N	N	N	N	N	N	N	N
ASTM Oil No. 2	X	X	G	E	X	F	X	E	E	X	X	E	E	E	E	E	E	E
ASTM Oil No. 3	X	X	G	E	X	F	X	E	E	X	X	X	X	X	X	X	G	N
ASTM Oil No. 4	X	X	X	G	X	X	X	N	N	C	C	G	E	E	E	G	E	E
Automatic Trans. Fluid	X	X	G	E	X	C	X	N	N	X	X	X	X	G	X	C	G	G
Aviation Gasoline	X	X	C	E	X	X	X	E	E	X	N	N	X	X	X	N	E	E
Baltic Types 100, 150, 200, 300, 500	N	N	N	E	X	N	X	E	N	X	X	X	X	X	X	X	G	G
Bardol B	X	X	X	X	X	X	X	E	N	E	E	E	E	E	E	E	E	E
Barium Carbonate	E	E	E	E	E	E	E	E	E	G	C	X	C	C	C	C	E	E
Barium Chloride	E	E	E	E	E	E	E	E	E	X	X	X	X	X	X	X	E	E
Barium Hydroxide	E	E	E	E	E	E	E	E	E	X	X	X	X	X	X	X	E	E
Barium Sulfate	E	E	E	E	E	E	E	E	E	X	N	N	X	E	X	N	N	N
Barium Sulfide	E	E	E	E	E	E	E	E	E	X	X	X	X	X	X	X	G	G
BBP (Butyl Benzyl Phthalate)	X	N	N	X	E	X	N	N	N	X	X	X	X	C	X	G	G	G
Beer	E	E	G	C	E	E	G	N	N	X	X	G	G	E	E	E	E	E
Beet Sugar Liquors	E	E	E	E	E	E	E	E	E	X	X	G	G	E	G	E	E	E
Bellows 80-20 Hydraulic Oil	N	N	N	E	X	N	X	E	N	X	X	X	X	C	X	C	G	G
Benzaldehyde	X	N	N	X	G	X	G	E	E	N	N	N	N	N	N	E	N	E
Benzal Chloride	N	N	N	X	G	N	N	E	E	X	X	G	G	C	G	C	E	E
Benzene (Benzol)	X	X	X	X	X	X	X	E	G	X	X	G	G	C	G	C	E	E
Benzene Sulfonic Acid	X	X	X	N	G	X	N	E	E	X	X	X	X	C	X	X	E	E
Benzidine	E	X	X	G	X	N	X	G	N	X	X	X	X	C	G	C	E	E
Benzine	X	X	G	E	X	X	X	E	E	X	N	X	X	N	N	N	N	N
Benzene Solvent (Ligroin)	X	N	N	E	X	X	X	E	E	X	X	N	X	X	N	X	E	N
Benzoic Acid	G	X	E	X	E	G	G	E	E	X	X	X	X	G	X	G	E	E
Benzoic Aldehyde	X	X	X	X	X	X	X	E	E	N	N	N	N	N	N	E	E	N
Benzophenone	E	N	N	N	N	N	N	E	N	X	X	X	X	C	X	C	E	E
Benzotrchloride	X	X	X	X	X	X	X	G	G	X	X	X	G	C	X	C	E	E
Benzoyl Chloride	X	X	X	X	X	X	X	G	G	N	N	N	N	N	N	N	E	G
Benzyl Acetate	X	X	X	X	G	G	G	E	E	X	N	N	X	G	X	X	E	E
Benzyl Alcohol	G	G	C	X	G	F	G	E	E	G	G	X	N	G	X	G	E	E
Benzyl Benzoate	N	N	N	N	G	N	G	E	N	C	X	X	C	C	G	C	E	E
Benzyl Chloride	X	X	X	X	C	X	X	E	E	X	N	N	X	G	N	N	N	N
Bichromate of Soda (Sodium Dichromate)	X	X	G	X	E	G	C	E	E	N	N	N	E	E	N	E	E	N
Bismuth Carbonate	E	N	X	N	N	N	N	N	N	C	X	X	X	E	X	E	E	E
Bisphenol A	E	N	N	N	N	N	N	N	N	E	N	E	E	E	E	N	N	N
Bitumastic	X	X	G	G	X	X	X	N	X	N	N	N	N	N	N	N	E	N
Black Sulfate Liquor	G	G	E	G	E	G	E	E	E	E	E	E	E	E	E	N	E	N
Blast Furnace Gas	X	X	G	C	C	G	C	E	E	C	E	E	E	G	E	C	E	E
Bleach	X	X	C	X	X	F	G	E	E	N	N	N	N	N	N	N	E	E
Borax Solution	G	G	E	C	E	E	E	E	E	X	X	X	X	E	E	E	E	E
Bordeaux Mixture	G	G	E	E	E	E	E	E	E	N	N	N	N	E	F	N	G	F
Boric Acid	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Brake Fluid (HD-557)	N	E	G	C	G	G	E	N	N	E	E	E	E	E	E	E	E	E
Brine	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E
Bromine	X	X	X	X	X	C	X	X	X	X	X	X	X	X	C	X	X	X
Bromine Water	X	X	G	C	C	E	C	E	E	X	X	G	C	C	E	C	E	E
Bromobenzene	X	X	X	X	X	X	X	C	C	X	X	X	X	X	X	X	C	C
Bromochloroethane	X	X	N	N	X	X	X	X	X	X	X	N	N	X	X	X	X	X
Bromochloromethane	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bromotoluene	X	X	N	N	N	X	G	X	X	X	N	N	N	N	N	N	N	N
Bubble Bath Compounds	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Bunker Oil	X	X	G	E	X	X	G	G	G	X	X	G	E	X	X	X	E	E
Butadiene	X	X	F	X	X	C	X	F	F	X	X	F	X	X	C	X	F	F
Butanediol (Butylene Glycol)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	E	G
Butane	X	X	E	E	E	G	X	E	N	X	X	E	E	E	G	X	E	N
Butanoic Acid	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Butanol	E	E	E	E	E	E	E	E	E	X	X	X	X	X	X	X	G	N
Butraldehyde (Butanal)	X	X	X	X	X	X	X	X	X	C	C	G	E	E	E	G	E	E
Butter (Non FDA)	C	C	G	E	X	E	E	G	E	X	X	X	X	X	X	X	G	N
Butyl Acetate	X	X	X	X	G	X	C	G	G	X	X	X	X	G	X	C	G	G
Butyl Acetoacetate	X	N	N	X	X	X	N	E	E	X	N	N	X	X	X	N	E	E
Butyl Acrylate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	G	G
Butyl Alcohol	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Butyl Aldehyde	X	N	N	X	X	X	X	E	E	X	N	N	X	X	X	X	E	E
Butylamine	G	C	X	C	C	C	C	C	E	E	E	E	E	E	E	E	E	E
Butyl Benzene	X	X	X	X	X	X	X	E	E	X	X	X	X	X	X	X	E	E
Butyl Benzyl Phthalate (BBP)	X	N	N	X	E	X	N	N	N	X	X	X	X	C	X	N	N	N
Butyl Bromide	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	G	G
Butyl Butyrate	X	X	X	X	C	X	G	G	G	X	X	X	X	C	X	G	G	G
Butyl Carbitol	X	X	G	G	E	E	E	E	E	X	X	G	G	E	E	E	E	E
Butyl Cellosolve	X	X	G	G	E	G	E	E	E	X	X	G	G	E	G	E	E	E
Butyl Chloride	X	X	X	X	C	X	C	G	G	X	X	X	X	C	X	C	G	G
Butylate	N	N	N	N	N	N	N	E	N	N	N	N	N	N	N	E	N	E
Butylene	X	X	G	G	C	G	C	E	E	X	X	G	G	C	G	C	E	E
Butyl Ether	X	X	G	G	C	G	C	E	E	X	X	G	G	C	G	C	E	E
Butyl Ethyl Acetaldehyde	X	X	X	X	C	X	X	E	E	X	X	X	X	C	X	X	E	E
Butyl Ethyl Ether	X	X	X	X	C	G	C	E	E	X	X	X	X	C	G	C	E	E
Butyl Formate	X	N	X	X	N	N	N	N	N	X	N	X	X	N	N	N	N	N
Butyl Mercaptan (2-Methyl - 2 Butanathiol)	X	X	N	X	X	N	X	E	N	X	X	N	X	X	N	X	E	N
Butyl Oleate	X	X	X	X	G	X	G	E	E	X	X	X	X	G	X	G	E	E
Butyl "Oxiol" tm for EG Monobutyl Ether	N	N	N	N	N	N	N	E	N	N	N	N	N	N	N	E	E	N
Butyl Phthalate	X	X	X	X	C	X	C	E	E	X	X	X	X	C	X	C	E	E
Butyl Stearate	X	X	X	G	C	X	C	E	E	X	X	X	G	C	X	C	E	E
Butylene Glycol	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	E	G
Butyraldehyde	X	N	N	X	G	X	X	E	E	X	N	N	X	G	X	X	E	E
Butyric Acid	G	G	X	N	G	X	G	E	E	G	G	X	N	G	X	G	E	E
Butyric Anhydride	C	X	X	C	C	G	C	E	E	C	X	X	C	C	G	C	E	E
Cadmium Acetate	X	N	N	X	G	N	N	N	N	X	N	N	X	G	N	N	N	N
Calcine Liquor (Radioactive Waste)	N	N	N	E	E	N	E	E	N	N	N	N	E	E	N	E	E	N
Calcium Acetate	C	X	X	X	E	X	E	E	E	C	X	X	X	E	X	E	E	E
Calcium Aluminate	E	N	E	E	E	E	N	N	N	E	N	E	E	E	E	N	N	N
Calcium Aresenate	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	E	N
Calcium Bisulfate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Bisulfide	G	G	E	E	E	E	E	N	E	N	N	N	N	E	E	N	E	N
Calcium Bisulfite	C	E	E	E	G	E	C	E	E	C	E	E	E	G	E	C	E	E
Calcium Bromide Solution	N	N	N	N	N	N	N	E	E	N	N	N	N	N	N	N	E	E
Calcium Bichromate	N	N	N	N	E	F	N	G	F	N	N	N	N	E	F	N	G	F
Calcium Carbonate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Chlorate	G	G	E	E	G	E	G	E	N	G	G	E	E	E	G	E	E	N
Calcium Chloride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Hydroxide	E	G	E	E	E	G	E	E	E	E	E	E	E	E	G	E	E	E

# CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	S N I C P L W								U H M		S N I C P L W								U H M
	B C B I S D P P				B C B I S D P P						B C B I S D P P				B C B I S D P P				
	R R R R	R R R R	R R R R	R R R R	R R R R	R R R R	R R R R	R R R R			R R R R	R R R R	R R R R	R R R R	R R R R	R R R R	R R R R	R R R R	
Calcium Hydrosulfide	G	G	E	E	E	E	N	E	N	Chloroform	X	X	X	X	X	X	X	G	G
Calcium Hypochlorite	X	X	X	X	G	F	G	G	G	Chloronaphthalene	X	X	X	X	X	X	X	N	N
Calcium Metasilicate	E	G	N	G	G	G	N	N	N	Chlorinated Hydrocarbons	X	X	X	X	X	X	X	G	G
Calcium Nitrate	E	E	E	E	E	E	E	E	E	Chloropentane	X	X	C	X	X	X	X	E	E
Calcium Silicate	E	G	N	G	G	G	N	N	N	Chlorophenol	X	X	X	X	X	X	X	G	G
Calcium Stearate	E	N	N	N	N	N	N	N	N	Chloropropanone	X	X	X	X	C	X	C	G	G
Calcium Sulfate	E	E	E	E	E	E	E	E	E	Chlorosulfonic Acid	X	X	X	X	X	X	X	G	G
Calcium Sulphhydrate	E	E	E	E	E	E	E	E	E	Chlorothene (Trichloroethane)	X	X	X	X	X	X	X	G	G
Calcium Sulfide	E	E	E	E	E	E	E	E	E	Chlorotoluene	X	X	X	X	X	X	X	G	G
Calcium Sulfite	E	E	E	E	E	E	E	E	E	Chlorox	G	G	G	N	G	G	N	G	E
Caliche Liquor (Crude Sodium Nitrate)	E	E	G	C	E	E	E	E	E	Chlorpyrifos	N	N	N	N	N	N	X	N	N
Camphene (Liquid above 115° F)	N	N	N	N	N	X	X	N	N	Chrome Alum	E	E	E	E	E	E	E	N	N
Cane Sugar Liquors (Non F.D.A.)	E	E	E	E	E	E	E	E	E	Chrome Plating Solutions	X	X	X	X	X	X	G	N	N
Caproic Acid	N	N	N	N	N	N	G	E	E	Chromic Acid	X	X	X	X	X	E	C	E	E
Caprolactam	E	N	N	N	N	N	N	N	N	Citgo FR Fuels	N	N	X	E	E	N	N	E	N
Caprylic Acid	X	N	N	X	G	G	N	E	E	Citric Acid	E	E	G	G	E	E	E	E	E
Carbamates	X	X	X	X	X	X	X	E	N	Coal Oil	X	X	G	E	X	X	X	E	E
Carbitol	X	X	G	G	E	G	G	E	E	Coal Tar	X	X	G	E	X	G	G	E	E
Carbitol Acetate	X	X	X	X	G	X	G	E	E	Coal Tar Naptha	X	X	F	E	X	X	X	E	E
Carbolic Acid (Phenol)	X	X	C	X	G	C	C	E	E	Coal Tar Pitch	X	X	G	G	X	G	X	N	N
Carbon Bisulfide (See Carbon Disulfide)	N	N	N	N	N	N	N	N	N	Cobalt Chloride	E	E	E	E	E	E	E	E	E
Carbon Dioxide	E	E	E	E	E	E	E	E	E	Coconut Oil	X	X	G	E	G	G	C	E	E
Carbon Disulfide	X	X	X	X	X	X	X	E	C	Cod Liver Oil	X	X	G	E	E	G	E	E	E
Carbonic Acid	E	E	E	E	E	E	E	E	E	Coke Oven Gas	X	X	X	X	F	X	X	E	E
Carbon Monoxide	E	E	E	E	E	E	E	E	E	Copper Arsenate	E	E	E	E	E	E	E	E	E
Carbon Tetrachloride	X	X	X	C	G	X	G	C	C	Copper Chloride	E	E	E	E	E	E	E	E	E
Carbon Tetrafluoride	X	X	X	C	X	X	X	C	C	Copper Cyanide	E	E	E	E	E	E	E	E	E
Carbonyl Chloride	X	X	X	X	E	X	X	X	X	Copper Hydrate	X	N	N	G	E	G	N	E	E
Casein	N	N	N	N	E	N	N	N	N	Copper Hydroxide	F	G	N	N	E	G	N	E	E
Castor Oil	C	X	G	E	G	C	G	E	E	Copper Nitrate	E	E	E	E	E	E	E	E	E
Caustic Potash (Potassium Hydroxide)	E	G	G	E	E	E	E	E	E	Copper Nitrite	E	E	E	E	E	E	E	E	E
Caustic Soda (Sodium Hydroxide)	E	G	G	G	E	G	E	E	E	Copper Sulphate	F	E	E	E	E	E	E	E	E
Cellosize	X	N	N	X	E	E	E	E	E	Copper Sulphide	C	E	E	E	E	E	E	E	E
Cellsolve	X	X	E	G	G	G	G	E	E	Corn Oil	X	X	C	E	E	G	C	E	E
Cellulose Acetate	C	X	C	X	G	C	G	G	G	Corn Syrup	G	G	G	G	G	G	G	E	N
Cellulube	C	X	X	X	G	X	E	E	E	Cottonseed Oil	X	X	C	C	C	G	C	C	G
Cement, Portland	N	N	N	N	E	N	N	N	E	Creosols	X	N	N	X	E	X	X	E	E
China Wood Oil (Tung Oil)	X	X	G	E	G	G	G	E	E	Creosote	X	N	N	X	X	X	X	E	E
Chlordane	N	N	X	X	N	X	X	E	N	Creosote (Wood)	X	X	C	G	X	C	X	E	E
Chlorinated Naphthalene	X	X	X	X	X	X	N	N	N	Creosote (Coal Tar)	X	X	C	G	X	C	X	E	E
Chlorinated Solvents	X	X	N	N	X	X	X	X	X	Cresols	X	X	C	C	X	C	X	E	E
Chlorine Dioxide	X	X	X	X	X	C	X	G	G	Cresylic Acid	X	X	C	C	X	C	X	E	E
Chlorine Gas (Dry)	C	C	X	C	C	G	C	G	G	Crotonaldehyde	X	X	X	X	E	X	C	E	E
Chlorine Trifluoride	N	N	N	N	N	N	X	N	N	Crotonic Acid	X	X	N	G	E	N	G	E	E
Chlorine, Water Solutions (2%)	C	X	X	X	C	G	C	E	E	Crude Oil	X	X	F	E	X	X	X	E	E
Chloroacetic Acid	G	X	X	X	C	X	C	E	E	Crude Wax	N	N	N	G	G	N	N	G	N
Chloroacetone	X	X	X	X	G	G	X	E	E	Cyrolite	X	X	G	E	X	X	X	N	N
Chlorobenzene	X	X	X	X	X	X	X	G	G	Cumene	X	X	X	C	C	X	X	E	E
Chlorobenzol	X	N	N	X	X	X	X	E	E	Cupric Arsenate	G	G	N	N	N	G	N	E	N
Chlorobromomethane	X	X	X	X	X	X	X	G	X	Cupric Carbonate	C	C	G	G	E	G	E	E	E
Chlorobutane	X	X	X	X	X	X	X	G	G	Cupric Chloride	C	C	G	E	E	E	E	E	E
Chlorobutadiene	X	X	X	X	X	X	X	G	G	Cupric Cyanide	G	G	G	G	G	G	G	E	N
Chloroethylbenzene	X	X	X	X	X	X	X	E	E	Cupric Hydroxide	N	N	N	N	N	N	N	N	N
										Cupric Nitrate	C	C	G	E	E	E	E	E	E
										Cupric Nitrite	C	C	G	E	E	E	E	E	E
										Cupric Sulfate	F	E	G	E	E	E	E	E	E





# CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	S N I C P L W										S N I C P L W										
	N	B	C	B	I	S	D	P	P	E	N	B	C	B	I	S	D	P	P	E	
	R	R	R	R	R	M	M	E	E	E	R	R	R	R	R	M	M	E	E	E	
Ethylhexyl Alcohol	E	E	E	N	E	N	E	E	E		Fuel C (ASTM)	X	X	C	G	X	X	X	G	G	
Ethylhexyl Phosphorodieth	X	N	N	E	X	X	X	X	N		Fuel Oil	X	X	G	E	X	E	X	E	E	
EX. TRI (Trichloroethylene)	X	X	X	C	X	X	X	G	G		Fumaric Acid	E	E	G	E	X	G	X	E	E	
Fatty Acids	X	X	C	C	X	X	X	E	E		Furan	X	X	X	X	C	X	C	E	E	
Fatty Alcohol, Blend	E	E	E	E	E	N	E	E	E		Furfural	X	X	C	X	G	G	G	E	E	
Fatty Petroleum Alcohol	N	N	N	E	E	N	E	E	E		Furfuryl Alcohol	X	X	C	X	C	C	C	E	E	
Ferric Bromide	E	N	N	N	N	N	N	N	N		Fyrguard 150, 200	N	N	N	E	E	N	E	E	N	
Ferric Chloride	E	E	E	E	E	E	E	E	E		Fyrquel 15R & O, 220 R&O, 550R&O	N	N	N	E	E	N	E	E	N	
Ferric Nitrate	N	N	G	G	G	G	G	E	N		Fyrquel 90, 150, 220, 550, 1000	N	N	N	E	E	N	E	E	N	
Ferric Sulfate	E	E	E	E	E	E	E	E	E		Gallic Acid	E	E	G	G	G	G	G	E	E	
Ferrous Acetate	X	X	X	X	E	X	G	E	E		Gasohol	X	X	G	G	X	X	X	G	E	
Ferrous Ammonium Sulfate	E	E	E	E	E	E	E	E	E		Gasoline (oxgenated-blended with MTBE)	X	X	G	G	X	X	X	G	E	
Ferrous Chloride	E	E	E	E	E	E	E	E	E		Gasoline - Regular	X	X	E	E	X	C	X	E	E	
Ferrous Hydroxide	G	C	E	G	E	G	E	E	E		Gasoline - Hi-Test	X	X	G	E	X	X	X	E	E	
Ferrous Nitrate	N	N	G	G	G	G	G	E	N		Gasoline - Lead Free	X	X	G	G	X	X	X	E	E	
Ferrous Sulfate	E	E	E	E	E	E	E	E	E		Gasoline (White)	X	X	G	G	X	X	X	G	N	
Fertilizer (Liquid Manure)	E	E	E	E	E	E	E	E	E		Gas, Coal	N	N	N	N	N	N	N	N	N	
Fire-Resistant Hydra-Fluid (Texaco)	N	N	N	E	X	N	X	E	N		Gas, High Octane	X	X	G	E	X	X	X	E	E	
Fish Oil	X	X	E	E	E	E	E	E	E		Gelatin	E	E	E	E	E	E	E	E	E	
Fluoroboric Acid	E	C	G	E	E	E	E	E	E		Glacial Acetic Acid	N	N	X	N	X	N	G	E	E	
Fluorine	X	X	X	X	X	X	X	X	X		Glauber's salt	E	E	N	N	N	N	E	N	N	
Fluosilicic Acid	E	C	G	E	E	E	E	E	E		Gluconic Acid	X	X	C	C	C	G	C	E	E	
Formaldehyde	C	C	G	G	E	C	G	E	E		Glucose	E	E	G	C	E	E	G	E	G	
Formalin (37-50% HCHO w/15% MeOH)	X	X	G	G	G	G	E	E	N		Glue	E	E	E	E	E	E	E	E	E	
Formamide	E	E	E	E	E	E	E	E	E		Glycerine (Glycerol)	E	E	E	E	E	E	E	E	E	E
Formic Acid	G	G	C	X	E	F	E	C	E		Glycerol Monolaurate	N	N	N	N	E	N	E	E	E	E
FR Fluid D	N	N	N	E	X	N	X	E	N		Glycol FR Fluids	N	N	N	E	E	N	E	N	N	N
Freon So 2	N	N	E	N	N	N	E	N	N		Glycols	E	E	E	E	E	E	E	E	E	E
Freon 11	X	X	G	E	X	E	X	E	E		Glyphosate	N	N	N	N	N	N	E	N	E	E
Freon 12	X	X	G	G	X	X	X	G	G		Graffinite	X	N	N	E	X	X	X	X	N	N
Freon13	E	E	E	E	E	E	E	E	E		Graphite	E	N	N	N	N	N	N	N	E	E
Freon 21	X	X	G	X	X	X	X	E	E		Grease	X	X	X	X	F	X	E	G	E	E
Freon 22	X	X	X	E	E	X	E	E	E		Green Sulfate Liquor	E	E	G	E	E	E	E	E	E	E
Freon 31	G	G	E	X	E	G	E	E	E		Halium	E	E	E	E	E	E	E	N	N	N
Freon 32	E	E	E	E	E	E	E	E	E		Halowax Oil	X	X	X	X	X	X	X	E	E	E
Freon 112	X	X	G	G	X	G	X	E	E		Heptachlor in Petroleum Solvents	X	X	G	G	X	X	X	E	E	E
Freon 113	C	G	E	E	X	E	X	E	E		Heptachlor in Petroleum Solvents	X	X	G	G	X	X	X	E	E	E
Freon 114	E	E	E	E	E	E	E	E	E		Water Spray										
Freon 115	E	E	E	E	E	E	E	E	E		Heptanal (Heptaldehyde)	X	X	X	X	X	X	G	E	E	E
Freon 142b	E	E	E	E	E	E	E	E	E		Heptane	X	X	E	E	X	G	X	E	E	E
Freon 152b	E	E	E	E	E	C	E	E	E		Heptane Carboxylic Acid	X	N	N	X	X	G	N	E	E	E
Freon 218	E	E	E	E	E	E	E	E	E		Heptanol	E	E	E	E	E	E	E	E	E	E
Freon C316	E	E	E	E	E	E	E	E	E		Hexaldehyde	N	N	N	N	N	N	E	E	E	E
Freon C318	E	E	E	E	E	E	E	E	E		Hexane	X	X	E	E	X	F	X	E	E	E
Freon 1381	E	E	E	E	E	E	E	E	E		Hexanol	E	E	E	E	E	E	E	E	E	E
Freon 114B2	X	C	E	G	X	E	X	E	E		Hexene	X	X	G	G	X	G	X	E	E	E
Freon 502	E	E	E	G	E	E	E	E	E		Hexylamine	G	C	G	G	G	C	G	E	E	E
Freon TF	C	G	E	E	E	E	E	E	E		Hexylene	X	X	G	E	X	X	C	G	E	G
Freon T-WD602	C	G	G	E	E	G	G	E	E		Hexylene Glycol	E	E	E	E	E	E	E	E	E	E
Freon TMC	G	C	G	G	G	G	G	E	E		Hexyl Methyl Ketone	X	X	X	X	G	X	G	E	E	E
Freon T-P35	E	E	E	E	E	E	E	E	E		Hi-Tri (Trichloroethylene)	X	X	X	C	X	X	X	G	G	G
Freon TA	E	E	E	E	E	E	E	E	E		Honey	E	N	E	E	N	N	E	N	N	N
Freon TC	X	G	E	E	E	E	G	E	E		Houghto-Safe 1055, 1110, 1115, 1120, 1130	N	N	N	X	E	N	E	E	N	N
Freon BF	X	X	G	G	X	G	X	E	E		Houghto-Safe 271, 416, 520, 616 & 620	N	N	N	E	E	N	E	E	N	N
Freon MF	X	G	C	E	X	G	X	E	E		Houghto-Safe 5046	N	N	N	E	E	N	X	E	N	N
Fuel A (ASTM)	X	X	G	E	X	F	X	E	E		Houghto-Safe 625, 640, & 525 under 100°F	N	N	N	E	E	N	E	N	E	N
Fuel B (ASTM)	X	X	F	E	X	X	X	G	G		Hy-Chock Oil	N	N	N	E	N	N	N	E	N	N

**E - Excellent • G - Good • F - Fair • C - Acceptable • X - Unsatisfactory • N - No Data**

# CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	U H M										U H M																			
	S N I C P					L W P P E					S N I C P					L W P P E														
	N	B	C	B	I	S	D	P	P	E	N	B	C	B	I	S	D	P	P	E	N	B	C	B	I	S	D	P	P	E
R	R	R	R	R	M	M	E	E	E	R	R	R	R	R	M	M	E	E	E	R	R	R	R	R	M	M	E	E	E	
Hydrafluid 760 (Texaco & Houghton)	N	N	N	E	X	N	X	E	N	Isobutylene	X	X	X	X	E	X	X	E	E	X	X	X	X	E	X	X	E	E		
Hydrafluid AZR&O, A, B, AA, C	N	N	N	E	X	N	X	E	N	Isobutyl Ether	X	X	X	X	X	X	X	E	E	X	X	X	X	E	X	X	E	E		
Hydrasol A (Textile Drying)	N	N	N	E	X	N	X	E	N	Isocyanates	C	X	X	X	G	C	G	G	G	G	G	G	G	G	G	G	G	G		
Hydraulic Fluid (Petroleum)	X	X	G	E	X	G	X	E	E	Isooctane	X	X	E	E	X	G	X	E	E	X	G	X	E	E	E	E	E	E		
Hydraulic Fluid	X	X	X	X	E	X	E	E	E	Isooctyl Alcohol	N	N	N	N	N	N	E	E	E	E	E	E	E	E	E	E	E	E		
Phosphate Ester Based										Isooctyl Thioglycolate	N	N	N	N	N	N	G	E	N	G	E	N	G	E	N	G	E	N		
Hydraulic Fluid	G	G	E	E	E	E	E	E	E	Isopentane	X	X	E	E	X	X	X	G	G	X	X	X	G	G	X	X	G	G		
Poly Alkylene Glycol Base										Isophorone	N	N	N	X	E	N	E	G	G	N	E	G	G	N	E	G	G	N		
Hydraulic & Motor Oil	X	X	C	E	X	G	X	E	E	Isopropyl Amine	G	X	E	C	G	C	G	E	E	G	X	E	E	E	E	E	E	E		
Hydrazine	X	X	X	X	G	X	G	E	N	Isopropyl Acetate	X	X	X	X	E	C	G	E	E	X	X	E	E	E	E	E	E	E		
Hydrazine Hydrate	X	X	X	X	G	X	G	E	N	Isopropyl Alcohol (Iso-propanol)	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E	E	E	E		
Hydrazine Solution	X	X	X	X	G	X	G	E	N	Isopropyl Amine	G	X	E	C	G	C	G	E	E	G	X	E	E	E	E	E	E	E		
Hydrobromic Acid	E	X	X	F	E	G	E	E	E	Isopropyl Benzene	X	X	X	X	X	X	X	E	E	X	X	X	E	E	E	E	E	E		
Hydrochloric Acid 37%	E	X	X	F	X	X	E	E	E	Isopropyl Chloride	X	X	X	X	X	X	X	G	G	X	X	X	G	G	X	X	G	G		
Hydrochloric Acid 50%	E	C	X	X	G	E	C	E	E	Isopropyl Ether	X	X	X	C	X	C	X	E	E	X	X	X	E	E	X	X	E	E		
Hydrochloric Acid 100%	G	C	X	X	C	G	C	E	E	Isopropyl Toluene	X	X	X	X	X	X	X	E	E	X	X	X	E	E	X	X	E	E		
Hydrocyanic Acid	G	F	E	F	E	E	C	E	E	Jet Fuels	X	X	G	E	X	F	X	E	E	X	F	X	E	E	X	F	X	E	E	
Hydro-Drive Oil (Houghton)	N	N	N	E	X	N	X	N	N	Kerosene	X	X	C	E	X	F	X	E	E	X	F	X	E	E	X	F	X	E	E	
Hydrofluoric Acid	X	X	X	X	E	E	X	C	E	Ketchup	N	N	E	E	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Hydrogen Chloride Anhydrous	N	N	N	N	N	N	N	N	N	Ketoglutaric Acid	N	N	N	N	N	N	G	E	E	N	N	G	E	E	N	N	G	E	E	
Hydrogen Bromide Liquid	X	X	N	X	X	N	E	N	N	Ketones	G	G	X	X	G	X	E	E	E	G	X	E	E	E	E	E	E	E	E	
Hydrogen Dioxide 10%	X	X	N	N	F	N	N	N	G	Lacquer	X	X	X	X	X	X	N	N	N	X	N	N	N	N	N	N	N	N	N	
Hydrogen Fluoride	X	X	N	X	G	N	E	N	N	Lacquer Solvents	X	X	X	X	X	X	X	E	E	X	X	X	E	E	X	X	E	E	E	
Hydrogen Gas	X	X	N	X	G	N	E	N	N	Lactic Acid - Cold	G	G	E	X	E	G	X	C	N	G	X	C	N	G	X	C	N	G	N	
Hydrogen peroxide 3%	E	C	G	G	E	E	G	E	E	Lactic Acid - Hot	X	X	X	X	N	C	X	N	N	X	N	N	N	N	N	N	N	N	N	
Hydrogen Peroxide 10%	X	X	C	X	C	C	C	E	E	Lactol	N	N	G	G	N	N	N	E	N	N	N	E	N	N	N	E	N	N	N	
Hydrogen Peroxide 30%	X	X	X	X	X	X	C	E	E	Lard	X	X	G	E	X	X	C	E	E	X	X	C	E	E	X	X	C	E	E	
Hydrogen Peroxide 90%	X	X	X	X	X	X	C	G	G	Lasso (Alachlor)	N	N	N	N	N	N	N	E	N	N	N	E	N	N	N	E	N	N	N	
Hydrogen Sulfide	X	X	E	X	E	G	E	E	E	Latex Paint	G	G	N	E	G	N	E	E	E	G	N	E	E	E	E	E	E	E	E	
Hydrolube	N	N	G	E	G	N	E	N	E	Lauryl Alcohol	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Hydroquinine	G	G	X	X	G	C	G	E	E	Lavender Oil	X	X	X	G	X	X	X	G	N	X	X	X	G	N	X	X	G	N	X	X
Hydroxyacetic Acid Solution	N	N	N	N	N	N	G	E	E	Lead Acetate	X	X	G	G	E	X	G	E	E	X	G	E	E	E	E	E	E	E	E	
Hydroxyethyl Acrylate (HEA)	N	N	N	N	N	N	X	E	E	Lead Nitrate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Hydroxyethyl Acrylate Acid (HEA Acid)	N	N	N	N	N	N	X	E	E	Lead Sulfamate	G	G	E	G	E	G	E	E	E	G	E	E	E	E	E	E	E	E	E	
Hydroxypropyl Acrylate Acid	N	N	N	N	N	N	X	E	E	Lead Sulfate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
Hylene	X	X	X	X	G	X	G	N	N	Lead, Tetraethyl	X	X	X	G	X	X	X	G	N	X	X	X	G	N	X	X	G	N	X	X
Hypochlorous Acid	G	G	G	X	G	E	G	E	E	Lead, Tetramethyl	X	X	X	G	X	X	X	N	N	X	X	X	N	N	X	X	N	N	X	X
Ink Oil (Linseed Oil Base)	X	X	G	G	G	G	G	E	E	Lecithin	N	N	G	X	N	N	N	E	N	N	N	E	N	N	N	E	N	N	N	
Insulating Oil	X	X	G	E	X	X	X	E	E	Ligroin	X	X	E	E	E	X	X	E	E	X	X	X	E	E	X	X	E	E	E	
Iodine	X	X	X	X	X	F	X	E	E	Lime	X	X	C	F	E	E	G	E	E	X	X	E	E	E	E	E	E	E	E	
Iron Acetate	X	X	X	X	E	X	G	E	E	Lime, Chlorinated	G	G	X	G	G	X	G	E	E	X	X	G	E	E	X	X	G	E	E	
Iron Hydroxide	C	C	E	G	E	G	G	E	E	Lime Sulphur Solution	X	X	E	X	X	G	G	E	E	X	X	G	E	E	X	X	G	E	E	
Iron Salts	E	E	E	E	E	E	E	E	E	Limonene	X	X	N	X	N	N	X	G	E	X	X	G	E	E	X	X	G	E	E	
Iron Sulfate	E	E	E	E	E	E	E	E	E	Lindol (Tricresyl Phosphate)	X	X	X	X	E	G	E	E	E	X	X	E	E	E	X	X	E	E	E	
Iron Sulfide	E	E	E	E	E	E	E	E	E	Linoleic Acid	X	X	X	X	X	X	X	N	N	X	X	X	N	N	X	X	N	N	X	X
Isoamyl Acetate	X	X	X	X	E	X	G	E	E	Linseed Oil	X	X	G	E	E	C	G	E	E	X	X	G	E	E	X	X	G	E	E	
Isoamyl Chloride	X	X	X	X	C	X	X	G	G	Liquid Petroleum Gas	X	X	G	E	E	X	G	X	E	E	X	G	X	E	E	X	G	X	E	E
Isoamyl Ether	X	X	X	X	X	X	E	E	E	Liquid Soap	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Isoamyl Phthalate	X	X	X	X	E	X	G	E	E	Liquified Natural Gas	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Isobutane	X	X	E	E	X	X	E	E	E	Lubrication Oils	X	X	C	E	X	F	X	E	E	X	F	X	E	E	X	F	X	E	E	E
Isobutanol (Isobutyl Alcohol)	E	E	E	E	E	E	E	E	E	Lye Solution	G	G	G	E	E	E	E	E	E	G	E	E	E	E	E	E	E	E	E	E
Isobutyl Acetate	X	X	X	X	E	X	G	E	E	Machine Oil Under 135°F	X	X	E	E	X	G	X	E	N	X	G	X	E	N	X	G	X	E	N	X
Isobutyl Aldehyde	C	X	X	X	G	X	G	E	E	Maganese Salts	X	X	N	E	N	E	N	E	N	X	N	E	N	E	N	X	N	E	N	X
Isobutyl Amine	G	C	X	X	G	C	G	E	E	Magnesium Acetate	X	X	X	X	E	X	G	E	E	X	X	E	E	E	X	G	E	E	E	
Isobutyl Bromide	X	X	X	X	X	X	X	G	G	Magnesium Carbonate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Isobutyl Carbinol	E	E	G	E	E	E	E	E	E	Magnesium Chloride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Isobutyl Chloride	X	X	X	X	X	X	X	G	G	Magnesium Chloride Brine	E	N	N	E	N	N	E	E	E	E	N	N	E	E	E	E	E	E	E	E

**E - Excellent • G - Good • F - Fair • C - Acceptable • X - Unsatisfactory • N - No Data**





# CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

WWW.ASCORBYNICKEL.COM

	S N I C P L W								U
	N	B	C	B	I	S	D	P	H
	R	R	R	R	R	M	M	E	M
Nickel Salts	E	E	E	E	E	E	E	E	N
Nickel Sulfate	E	E	E	E	E	E	E	E	E
Niter Cake	E	E	E	E	E	E	E	E	E
Nitric Acid, Conc (16N)	X	X	X	X	G	G	E	G	N
Nitric Acid, Red Fuming	X	X	X	X	X	X	X	X	X
Nitric Acid - 10%	X	X	X	X	G	G	G	E	E
Nitric Acid - 13N	N	N	N	N	N	N	C	N	N
Nitric Acid - 13N + 5%	N	N	N	N	N	N	N	N	N
Nitric Acid - 20%	X	X	X	X	G	G	F	E	E
Nitric Acid - 30%	X	X	X	X	F	F	F	G	G
Nitric Acid - 30% to 70%	X	X	X	X	F	F	C	F	F
Nitrobenzene	X	X	X	X	X	X	X	E	E
Nitroethane	G	G	C	X	G	G	X	E	N
Nitrogen Gas	E	E	E	E	E	E	E	E	E
Nitrogen Oxide	X	X	X	X	E	E	G	E	N
Nitrogen Tetraoxide	X	X	X	X	X	X	X	X	X
Nitromethane	G	G	C	X	G	C	G	E	E
Nitropropane	C	C	C	X	E	C	G	E	E
Nitrous Oxide Gas	E	E	E	E	E	E	E	E	E
Nonenes	X	N	N	E	X	X	X	E	E
Octadecanoic Acid	X	X	G	E	G	X	C	E	E
Octane	X	X	G	E	X	X	X	G	G
Octanol (Octyl Alcohol)	G	G	E	G	G	G	E	E	E
Octyl Acetate	X	X	X	X	E	X	G	E	E
Octyl Aldehyde	X	N	N	X	X	X	N	N	N
Octyl Amine	C	C	G	C	G	C	G	E	E
Octyl Carbinol	E	E	E	E	E	E	E	E	E
Octylene Glycol	E	E	E	E	E	E	E	E	E
Oil, ASTM #1	X	X	E	E	X	G	X	E	E
Oil, ASTM #2	X	X	E	E	X	C	X	E	E
Oil, ASTM #3	X	X	C	G	E	X	X	E	E
Oil - Petroleum	X	X	E	E	X	F	X	E	E
Oil of Turpentine	X	X	G	E	X	X	X	G	G
Oils, Animal (high fatty acid content)	X	X	G	E	G	X	X	G	N
Oleic Acid	X	X	F	C	G	X	G	E	E
Oleum (Fuming Sulf Acid)	X	X	X	X	X	X	X	X	X
Olive Oil	X	X	G	E	E	G	G	E	E
Organic Fatty Acids	X	N	N	E	X	X	X	E	E
Ortho-Dichlorobenzene	X	X	X	X	X	X	X	E	E
Orthodichlorobenzol	X	N	N	X	X	X	X	E	E
Orthoxylene	X	X	N	N	X	X	X	E	G
OS 45 Hydraulic Fluid (Silicate Ester Base)	X	X	E	G	X	G	X	N	N
Oxalic Acid	F	F	G	F	E	G	E	E	E
Oxygen, Cold	G	G	G	G	E	G	G	E	E
Oxygen, Hot	X	X	X	X	X	X	X	E	E
Ozone	X	F	G	X	G	E	E	E	E
Paint Thinner	X	X	X	X	X	X	X	E	E
Paint (Emulsion or Latex)	N	N	N	G	N	N	G	E	E
Paint (Oil or Solvent Based)	X	X	N	G	X	X	X	E	N
Palmitic Acid	X	X	C	E	E	C	C	G	E
Palm Oil	X	X	G	E	E	G	G	E	E
Papermakers Alum	E	E	E	E	E	E	E	E	E
Para-Dichlorobenzene	X	X	X	X	X	X	X	G	G
Paraffin Wax	X	X	G	E	X	X	X	X	X
Paraformaldehyde	X	X	G	G	G	G	G	E	E
Paraldehyde	X	N	N	X	G	X	G	E	E
Paraxylene	X	N	N	N	X	X	N	E	E

	S N I C P L W								U
	N	B	C	B	I	S	D	P	H
	R	R	R	R	R	M	M	E	M
Peanut Oil	X	X	G	E	C	G	X	E	E
Pelargonic Acid	X	N	N	E	E	X	N	E	E
Pentachloroethane	X	X	N	N	X	X	N	E	E
Pentachlorophenol in Oil	X	X	X	X	E	N	X	E	E
Pentane	X	X	E	E	X	G	X	E	E
Pentanol	E	N	N	E	E	E	E	E	E
Pentatone	X	N	N	X	G	X	N	E	E
Perchloric Acid - 2N	G	G	E	X	G	E	C	E	E
Perchloroethylene	X	X	X	X	X	X	X	G	G
Petrolatum	X	X	E	E	X	C	X	E	E
Petroleum, Crude	X	X	G	E	X	X	X	E	E
Petroleum Ether (Naptha)	X	X	E	E	X	X	X	E	E
Petroleum Naptha	X	X	X	X	X	X	X	X	X
Petroleum Oils	X	X	E	E	X	C	X	E	E
Petroleum Paraffin Wax	N	N	N	N	N	N	X	G	G
Phenol	F	F	F	X	E	F	F	E	E
Phenol Acid	X	X	X	X	G	X	G	G	N
Phenolates	N	N	X	X	N	X	N	N	N
Phenolsulfonic Acid	X	X	C	X	C	X	C	G	G
Phenyl Chloride	X	X	X	X	X	X	X	E	E
Phenylhydrazine	C	X	X	X	G	C	C	E	E
Phorone	X	X	X	X	E	X	G	E	E
Phosgene (Carbonyl Chloride)	X	X	X	X	G	X	X	X	X
Phosphate Esters	X	X	X	X	E	X	E	E	E
Phosphoric Acid 10%	E	E	E	E	E	E	E	E	E
Phosphoric Acid 10% - 85%	F	F	G	F	E	E	E	E	E
Phosphorous Trichloride	X	X	X	X	E	X	E	E	E
Pickling Solution	C	C	C	C	C	C	C	E	E
Pitric Acid, Molten	C	C	C	C	C	G	C	X	X
Pitric Acid, Water Solution	E	C	G	G	E	E	G	E	E
Pinene	X	X	X	E	X	X	X	E	E
Pine Oil	X	X	X	F	F	X	X	E	E
Piperidine	X	X	X	X	X	X	X	G	G
Pitch	X	X	G	G	X	C	X	E	E
Plating Solutions, Chrome	X	X	G	G	E	C	E	E	E
Plating Solutions, Other	E	E	G	G	E	C	E	E	E
Polyvinyl Acetate Emulsion (PVA)	C	C	G	C	E	G	E	E	E
Polyethylene Glycol	E	E	E	E	E	E	E	E	E
Polypropylene Glycol	E	E	E	E	E	E	E	E	E
Polyurethane Foam Under 125°F	N	N	N	N	G	N	G	E	N
Potassium Acetate	X	X	X	X	E	X	G	E	E
Potassium Bicarbonate	E	E	E	E	E	E	E	E	E
Potassium Bisulfate	E	E	E	E	E	E	E	E	E
Potassium Bisulfite	E	E	E	E	E	E	E	E	E
Potassium Bromide	E	E	E	E	E	E	E	E	N
Potassium Carbonate	E	E	E	E	E	E	E	E	E
Potassium Chloride	E	E	E	E	E	E	E	E	E
Potassium Chromate	X	X	F	X	E	F	G	E	G
Potassium Cyanide	E	E	E	E	E	E	E	E	E
Potassium Dichromate	X	X	G	X	E	F	G	E	E
Potassium Hydrate	E	G	G	G	E	G	E	E	E
Potassium Hydroxide	E	E	C	E	E	E	E	E	E
Potassium Iodide	N	N	E	E	N	E	E	N	N
Potassium Nitrate	E	E	E	E	E	E	E	E	E
Potassium Permanganate 5%	X	X	X	X	E	X	E	E	E
Potassium Phosphate	N	N	E	N	N	E	E	N	N
Potassium Silicate	E	E	E	E	E	E	E	E	E

# CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	S N I C P L W									S N I C P L W								
	N	B	C	B	I	S	D	P	P	N	B	C	B	I	S	D	P	P
	R	R	R	R	R	M	M	E	E	R	R	R	R	R	M	M	E	E
Potassium Sulfate	E	E	E	E	E	E	E	E	E	Soda Ash	E	E	E	E	E	E	E	E
Potassium Sulfide	E	E	E	E	E	E	E	E	E	Soda, Caustic (Sodium Hydroxide)	E	G	E	G	E	E	E	E
Potassium Sulfite	E	E	E	E	E	E	E	E	E	Soda Lime	E	E	G	G	E	G	E	E
Potassium Thiosulfate	N	N	E	N	N	E	E	N	N	Soda Niter (Sodium Nitrate)	E	E	E	E	E	E	E	E
Producer Gas	X	X	G	E	X	G	X	E	E	Sodium Acetate	X	X	X	X	X	X	G	E
Propane	X	X	C	E	X	G	X	E	N	Sodium Aluminate	E	E	E	E	E	E	E	E
Propanediol	E	E	G	E	E	E	E	E	E	Sodium Bicarbonate	E	E	E	E	E	E	E	E
Propanol	E	N	N	E	E	E	E	E	E	Sodium Bichromate Solution	G	G	G	G	E	G	E	N
Propionic Acid	G	G	X	X	G	G	G	E	E	Sodium Bisulfate	E	E	E	E	E	E	E	E
Propyl Acetate	X	X	X	X	G	X	G	E	E	Sodium Bisulfite	E	E	E	E	E	E	E	E
Propyl Alcohol (Propanol)	E	E	E	E	E	E	E	E	E	Sodium Borate	E	E	E	E	E	E	E	E
Propyl Aldehyde	X	N	N	X	G	X	N	N	N	Sodium Carbonate	E	E	E	E	E	E	E	E
Propyl Chloride	X	X	C	X	C	X	C	G	G	Sodium Chloride	E	E	E	E	E	E	E	E
Propylene	X	X	X	X	X	X	X	N	N	Sodium Chloride Solution	G	G	X	X	G	G	X	N
Propylene Diamine	G	G	G	G	E	C	G	E	E	Sodium Chromate	X	X	C	X	E	C	G	G
Propylene Dichloride	X	X	X	X	X	X	X	G	G	Sodium Cyanide	E	E	E	E	E	E	E	E
Propylene Glycol	E	E	E	E	E	E	E	E	E	Sodium Dichromate	X	X	C	X	E	F	G	E
Propylene Tetramer	X	N	N	E	X	X	X	E	E	Sodium Fluoride	E	E	E	E	E	E	E	E
Purina Insecticide	N	N	X	X	G	N	G	E	N	Sodium Hydrate	G	G	G	G	G	G	E	N
Purple RX Oils	N	N	N	E	X	N	X	E	N	Sodium Hydroxide (Caustic Soda)	E	C	E	G	E	E	E	E
Pydraul Hydraulic Fluids	X	X	X	X	G	X	G	G	G	Sodium Hypochlorite	F	X	X	X	G	F	G	G
Pyranol	X	X	X	C	X	X	X	E	E	Sodium Metallic	N	N	N	G	N	N	E	N
Pyrene (Carbon Tetrachloride)	X	X	X	X	X	X	X	G	X	Sodium Metaphosphate	E	E	G	E	E	G	E	E
Pyridine	X	X	X	X	G	X	G	E	E	Sodium Nitrate	E	E	E	E	E	E	E	E
Pyroigneous Acid	C	C	G	C	G	G	G	E	E	Sodium Nitrite	E	E	E	E	E	E	E	E
Pyrrrole	C	G	X	X	G	X	C	E	E	Sodium Perborate	C	X	G	X	E	X	G	E
Quenching Oil	N	N	G	G	N	N	N	N	N	Sodium Peroxide	G	G	G	G	E	G	E	G
Quintolubric 822	N	N	G	E	X	N	G	E	N	Sodium Phosphate	E	G	G	E	E	E	E	E
Rando Oils	N	N	N	E	X	N	X	E	N	Sodium Silfhydrate	G	X	G	G	G	G	E	N
Rape Seed Oil	X	X	G	G	E	G	G	G	G	Sodium Silicate	E	E	E	E	E	E	E	E
Red Oil (Crude Oleic Acid)	X	X	G	G	G	G	G	E	E	Sodium Sulfate	E	E	E	E	E	E	E	E
Refined Wax (Petroleum)	X	X	G	E	N	N	N	E	N	Sodium Sulfide	E	E	E	E	E	E	E	E
Refrigerant 11 - Freon	X	X	C	E	X	F	F	G	G	Sodium Sulfite	E	E	E	E	E	E	E	E
Refrigerant 12 - Freon	X	X	G	E	X	X	X	G	G	Sodium Sulphhydrate	N	N	G	G	E	G	E	N
Refrigerant 22 - Freon	X	X	E	X	E	X	X	E	E	Sodium Thiocyanate Solution	N	G	E	E	G	G	E	N
Richfield A Weed Killer 100%	X	X	X	X	X	X	X	G	G	Sodium Thiosulfate	E	E	E	E	E	E	E	E
Richfield B Weed Killer 33%	X	X	G	G	G	C	X	G	G	Soinus Oils	N	N	N	E	X	N	X	E
Rosin Oil	X	X	E	E	X	G	X	E	E	Soybean Oil	X	X	G	G	G	G	E	E
Rotenone and Water	E	E	E	E	E	E	E	E	E	Spent Acid	X	X	X	X	X	G	X	G
Rubilene Oils	N	N	N	E	X	N	X	E	N	Stannic Chloride	E	E	E	E	E	E	E	E
Sal Ammoniac	E	E	E	E	E	E	E	E	E	Stannic Sulfide	E	E	E	E	E	E	E	E
Salicylic Acid	E	G	X	X	E	E	E	E	E	Stannous Chloride	E	E	E	E	G	E	E	E
Sea Water	E	E	E	E	E	E	E	E	E	Stannous Sulfide	E	E	E	E	E	E	E	E
Sevin	N	N	N	N	N	N	G	G	N	Starch	E	E	G	G	N	E	E	N
Sewage	F	F	G	E	F	E	G	E	E	Starch Gum	N	N	E	E	X	N	E	N
Sillicate of Soda	E	E	E	E	E	E	E	E	E	Steam - Below 350°F	X	X	X	X	G	X	E	X
Silicone of Soda (Sodium Silicate)	E	E	E	E	E	E	E	E	E	Stearic Acid	X	X	G	G	G	G	E	E
Silicate Esters	X	X	E	G	X	E	X	E	E	Stoddards Solvent	X	X	C	E	X	X	E	E
Silicone Greases	E	E	E	E	E	E	E	E	E	STPP (Sodium Triphosphosphate)	G	G	N	N	G	N	G	N
Silicone Oil	E	F	E	E	E	E	F	E	E	Styrene	X	X	X	X	X	X	X	X
Silver Cyanide	N	N	E	N	N	N	N	E	N	Sugar Solutions (Sucrose - Non F.D.A.)	E	E	E	E	E	E	E	E
Silver Nitrate	E	E	E	E	E	E	E	E	E	Sulfamic Acid	C	C	G	G	E	G	E	E
Skelly Solvent	X	X	G	E	X	C	X	E	E	Sulfite Liquors	G	G	G	G	E	E	G	E
Skydrol Hydraulic Fluids	X	X	X	X	E	X	E	E	E	Sulfonic Acid	X	X	C	X	X	C	X	G
Soap, Liquid	G	G	E	E	G	E	E	E	N	Sulfur (Molten)	X	X	X	X	F	F	F	G
Soap Oil	N	N	X	X	N	X	N	E	G	Sulfur Chloride	X	X	C	C	X	G	X	G
Soap Solutions	G	E	G	E	E	E	E	E	E	Sulfur Dioxide	F	F	G	X	G	G	F	G

**E - Excellent • G - Good • F - Fair • C - Acceptable • X - Unsatisfactory • N - No Data**

# CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

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	S N I C P L W U N B C B I S D P P H R R R R R M M E E										S N I C P L W U N B C B I S D P P H R R R R R M M E E									
Sulfur Hexafluoride	E	E	E	E	E	E	E	E	E		Trichloroacetic Acid	C	G	X	G	G	X	G	E	N
Sulfur Trioxide	X	X	X	X	G	X	C	G	G		Trichlorobenzene	X	X	X	X	X	X	X	G	G
Sulfuric Acid 60% (200°F)	X	X	F	X	F	G	G	E	E		Trichloroethane	X	X	X	X	X	X	X	E	E
Sulfuric Acid - Conc.	X	X	X	X	X	E	X	E	X		Trichloroethylene	X	X	X	C	X	X	X	G	X
Sulfuric Acid - Fuming	X	X	X	X	X	X	X	X	X		Trichloropropane	X	X	X	X	X	X	X	E	E
Sulfuric Acid 25%	G	G	G	E	E	E	G	E	E		Tricresyl Phosphate (TCP)	X	X	X	X	E	X	G	E	E
Sulfuric Acid 25% - 50%	G	X	X	F	E	E	E	E	E		Tridecanol	E	E	E	E	E	E	E	E	E
Sulfuric Acid 50% - 96%	X	X	F	X	F	G	G	E	E		Triethanolamine (TEA)	G	G	E	G	E	E	G	E	E
Sulfurous Acid	G	C	G	C	G	E	G	E	E		Triethylamine	G	G	E	G	G	E	G	E	E
Sun R&O Oils	N	N	N	E	X	N	X	E	N		Triethylene Glycol	E	E	E	E	E	E	E	E	E
Suntac HP Oils	N	N	N	E	X	N	X	E	N		Trifluralin	X	N	N	X	X	X	X	E	E
Suntac WR Oils	N	N	N	E	X	N	X	E	N		Trihydroxybenzoic Acid	G	G	X	X	G	N	E	E	E
Sunvis Oils 700, 800, 900	N	N	N	E	X	N	X	E	N		Trimethylbenzene	X	X	X	X	X	N	X	N	N
Synthetic Oil (Citgo)	N	N	N	E	X	N	X	E	N		Trinitrophenol	G	G	G	G	G	G	G	G	G
Syrup	E	E	G	N	N	N	N	E	E		Trinitrotoluene (TNT)	X	X	G	X	X	G	X	X	X
Tall Oil	X	X	G	E	X	G	X	E	E		Triphenyl Phosphate	X	X	C	X	E	C	G	E	E
Tallow	X	X	E	E	X	X	X	E	E		Tripoly Phosphate	G	G	N	N	G	N	G	G	N
Tannic Acid	E	G	G	C	E	G	E	E	E		Trisodium Phosphate	E	E	E	E	E	E	E	E	E
Tar	X	X	G	G	X	X	X	E	E		Tung Oil	X	X	G	E	C	G	X	E	E
Tar Bituminous	X	X	C	G	X	X	X	N	N		Turbine Oil	X	X	G	G	X	G	X	E	E
Tartaric Acid	E	E	G	E	E	E	G	E	E		Turpentine	X	X	E	E	X	X	X	G	E
Tellus Oils	N	N	N	E	X	N	X	E	N		2, 4D With 10% Fuel Oil	X	X	E	E	X	X	X	E	E
Tergitol	N	N	N	N	N	N	N	N	X		Ucon Hydrolube Oils	X	X	G	E	E	X	E	E	E
Terpineol	X	X	X	X	C	X	C	G	G		Undecanol	G	N	N	E	N	G	N	N	N
Tertiary Butyl Alcohol	E	E	E	E	E	E	E	E	E		Undecyl Alcohol	G	N	N	E	N	G	N	N	N
Tetrachlorobenzene	X	X	X	X	X	X	X	G	G		Union Hydraulic Tractor Fluid	N	N	N	E	X	N	X	E	N
Tetrachloroethane	X	X	X	X	X	X	X	E	G		Unsymmetrical Dimethyl Hydrazine (UDMH)	X	X	X	X	E	E	E	C	C
Tetrachloroethylene	X	X	X	X	X	X	X	E	E		Uran	G	C	G	G	G	E	G	E	E
Tetrachloromethane	X	X	X	X	X	X	X	G	G		Urea	E	F	E	F	E	F	E	E	E
Tetrachloronaphthalene	X	X	X	X	X	X	X	G	G		Urethane Formulations	N	N	N	E	N	N	N	N	N
Tetradecanol	E	E	E	E	E	E	E	E	E		Uric Acid	N	N	N	N	N	N	N	N	N
Tetraethylene Glycol	E	E	E	E	E	E	E	E	E		Varnish	X	X	G	G	X	F	X	E	E
Tetraethyl Lead	X	X	C	G	X	X	X	E	E		Vegetable Oils	X	X	G	E	E	G	C	E	E
Tetrahydrofuran (THF)	X	X	X	X	X	X	X	E	E		Versilube	C	C	C	E	E	E	E	E	E
Tetrahydroxydicyclopentadiene	X	X	X	X	X	X	X	N	N		Vinegar	E	F	E	C	E	E	G	E	E
Tetralin	X	X	X	X	X	X	X	N	N		Vinegar Acid	E	F	E	F	E	E	G	E	E
Theobromo Oil	X	X	G	G	N	N	N	E	G		Vinyl Acetate	X	X	X	X	G	F	F	G	X
Thionyl Chloride	X	X	X	X	X	X	X	E	E		Vinyl Benzene	X	X	X	X	X	X	X	G	G
Thiopen	X	X	X	X	G	N	X	N	N		Vinyl Chloride	F	X	X	X	X	X	X	E	E
Tin Chloride	E	E	E	E	E	E	E	E	E		Vinyl Cyanide	N	N	N	N	N	N	N	N	N
Tin Tetrachloride	E	E	E	E	E	E	E	E	E		Vinyl Ether	X	X	X	X	X	C	C	E	E
Titanium Tetrachloride	X	X	G	F	X	F	F	E	G		Vinyl Styrene	N	N	N	N	N	N	N	N	N
Toluene	X	X	X	X	X	X	X	E	E		Vinyl Toluene	X	X	X	X	X	X	X	G	G
Toluene Diisocyanate (TDI)	C	C	X	C	E	X	E	E	E		Vinyl Trichloride	X	X	X	X	X	X	X	E	E
Toluidine	X	N	N	X	X	X	N	N	N		Vitrea Oils	N	N	N	E	X	N	X	E	N
Toluol	X	N	N	X	X	X	X	E	E		V.M. & P. Naptha	X	X	E	E	X	X	X	E	E
Toxaphene	X	X	G	G	X	X	X	E	E		Water, Fresh (NON F.D.A.)	E	E	E	E	E	E	E	E	E
Transformer Oils (Petroleum Base)	X	X	G	E	X	G	X	E	E		Water Boiling	N	N	E	N	N	N	E	N	N
Transformer Oils (Chloronated Pheynyl Base Askerels)	X	X	X	X	X	X	X	G	G		Water, Salt	E	E	E	G	E	E	E	E	E
Transmission Fluids A	X	X	C	G	X	X	X	E	E		Whiskey	E	E	E	E	E	E	E	X	N
Transmission Fluid B	X	X	X	C	X	X	X	E	E		White Liquor	E	E	E	E	G	E	C	E	E
Tributoxyethyl Phosphate	X	X	N	X	G	X	G	E	X		White Oil	X	X	G	E	X	X	X	E	E
Tributoxyl Ethylsulfate	X	N	N	X	E	X	E	X	N		Wines	E	E	E	E	E	E	E	X	N
Tributyl Amine	G	G	G	G	E	C	E	E	E		Wood Alcohol	E	E	E	E	E	E	E	E	E
Tributyl Phosphate	X	X	X	X	G	X	G	E	E		Xylene (Xytol)	X	X	X	X	X	X	X	C	C
Tricetin	E	G	G	G	E	G	E	E	E		Xylidine	X	X	X	X	X	X	X	G	G

# CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	U H E X M S N I C P L W N B C B I S D P P R R R R R M M E E											
Zeolites	G	E	E	C	C	E	E	E	E	E	E	E
Zeric	N	N	N	E	X	N	X	E	N			
Zinc Acetate	C	X	C	C	E	C	G	E	E			
Zinc Carbonate	E	E	E	E	E	E	E	E	E			
Zinc Chloride	E	E	E	E	E	E	G	E	E			
Zinc Chromate	E	C	E	E	E	C	E	G	G			
Zinc Sulfate	E	E	E	E	E	E	E	E	E			

Resistance Rating			
<b>E</b>	Excellent	<b>C</b>	Acceptable
<b>G</b>	Good	<b>X</b>	Unsatisfactory
<b>F</b>	Fair	<b>N</b>	No Data

**Maximum temperature  
100°F (38°C)  
unless otherwise specified.**

The reader is cautioned that the Chemical, Oil & Solvent Table for Rubber Hose is only a guide and should be used as such. The degree of resistance of an elastomer with a particular fluid depends on such variables as temperature, concentration, pressure, velocity of flow, duration of exposure, aeration, stability of fluid, etc. Also, variations in elastomer types and special compounding of stocks to meet specific service conditions have considerable influence on the results obtained.

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

**Warning:** The following data has been compiled from generally available sources and should not be relied upon without consulting and following the hose manufacturer's specific chemical recommendations. Neglecting to do so might result in failure of the hose to fulfill its intended purpose. This may result in possible damage to property and serious bodily injury.

**1-EXCELLENT**

**2-GOOD**

**3-LIMITED**

**4-UNSATISFACTORY**

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Acetaldehyde	4	4	4	4	4	4	4	4
Acetaldehyde 40%	4	4	4	4	4	4	4	4
Acetate Solvents, crude	4	4	3	4	3	4	3	4
Acetate Solvents, pure	4	4	3	4	3	4	3	4
Acetic Acid 0-1%	1	2	1	2	3	4	4	4
Acetic Acid 20-30%	1	2	1	2	3	4	4	4
Acetic Acid 80%	2	2	1	2	4	4	4	4
Acetic Acid Vapors	1	2	1	2	3	3	4	4
Acetic Acid Glacial	2	3	2	3	4	4	4	4
Acetic Anhydride	4	4					4	4
Acetone	2	3	1	1	3	4	3	4
Acetylene	1	1					1	1
Acrylonitrile	1	2						
Adipic Acid	2	3					4	4
Allyl Alcohol 96%	4	4					4	4
Allyl Chloride	3	3					4	4
Alum	1	1	1	1	1	1	1	1
Aluminum Acetate	2	3						
Aluminum Alkyl	4	4						
Aluminum Chloride	1	1	1	1	1	1	3	3
Aluminum Flouride	1	1	1	1	1	1	1	1
Aluminum Hydroxide	1		1	1	2	2	2	3
Aluminum Nitrate	1	2					1	1
Aluminum Oxychloride	1	1						
Aluminum Phosphate Solution	4	4						
Aluminum Salts	1	1						
Aluminum Sulphate	1	1	1	1	1	1	1	1
Aminoethanol	2							
Ammonia - aqueous	1		1		3		3	4
Ammonia - dry gas	3	4	2		3		3	4
Ammonia- liquid	4	4	3		3		3	4
Ammoniated Latex	1	3						
Ammonium Acetate	1	1						
Ammonium Bicarbonate	1	1						
Ammonium Carbonate	1	1					1	1
Ammonium Chloride Solution	1	1					2	3
Ammonium Flouride 25%	4	4					3	4
Ammonium Hydroxide (30% NH)	4	4					3	4
Ammonium Metaphosphate	1	1					2	2
Ammonium Persulfate	1	1					2	2
Ammonium Nitrate	1	1					2	2
Ammonium Phosphate Solutions	1	1						
Ammonium Sulfate	1	1					1	1
Ammonium Sulfide	1	1	1	1	1	1	1	1
Ammonium Thiocyanate	1	1	1	1	2	2	2	2
Amyl Acetate	4	4						
Amyl Alcohol	1	2	1	2	4	4	4	4
Amyl Chloride	4	4	4	4	4	4		
Aniline	2	3	1	2			4	4
Aniline Chlorohydrate	4	4					4	4
Aniline Hydrochloride	4	4					4	4
Animal Gelatin	1							
Animal Oils	1	1	1	1				
Ant Oil	4	4						

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Anthraquinone	1	1						
Anthraquinonesulfonic Acid	1	1					4	4
Antifreeze	1	1						
Antimony Chloride	1							
Antimony Salts	1							
Antimony Trichloride	1	1					1	1
Apple Sauce/Juice	1	1						
Aqua Ammonia	4	4						
Aqua Regia	3	4	2	3			4	4
Argon, Compressed	4	4						
Aromatic Hydrocarbons	3	3	1	1				
Arsenic Acid 80%	1	2	1	1	4	4	4	4
Arsenic Trichloride	1	1					1	1
Arsenic Trioxide	1							
Arylsulfonic Acid	3	4					4	4
Askarel (Transformer Oil)	4	4						
Asphalt	4	4						
ASTM Fuel Oil # 1	1	1	1	1	2	2	1	1
ASTM Oil No. 2	4	4						
ASTM Fuel Oil # 3	2	3	1	1	2	2	1	1
ASTM Fuel A	2	2	1	1	2	2	1	1
ASTM Fuel B	4	4	1	1	2	3	2	3
ASTM Fuel C	4	4					2	3
Baby Food	1	1						
Baltic Types 100, 150, 200, 300, 500	2							
Barium Carbonate	1	1	1	1	1	1	1	1
Barium Chloride	1	1	1	1	1	1	1	1
Barium Hydroxide	1	1					2	3
Barium Sulfate	1	1	1	1	1	1	1	1
Barium Sulfide	1	1	1	1	1	1	1	1
Barley	1	4						
Basic Copper Arsenate	1							
Beer	1	1						
Beet Sugar - liquor	1	1						
Bellows 80-20 Hydraulic Oil	2							
Benzaldehyde	4	4						
Benzene	4	4						
Benzidine	4	4						
Benzoic Acid	2	3	1	2	4	4	4	4
Benzoic Aldehyde	4	4						
Benzol	4	4	2	3	3	4	3	4
Benzotrichloride	4	4						
Benzyl Alcohol	1							
Benzyl Chloride	4	4						
Berries	1	1						
Bismuth Carbonate	1	1					1	1
Black Liquor	1	1	1	1				
Blast Furnace Gas	4	4						
Bleach 12.5% Active CL	2	3	1	2	3	4	3	4
Borax	1	2	1	1			1	1
Bordeaux Mixture	1	1	1	1				
Boric Acid	1	1	1	1			4	4
Boric Oxide	1							
Boron Trifluoride	1	1					1	1
Brake Fluid (Petroleum Base)	2							
Brake Fluid (Synthetic Base)	2							
Brine	1	1	1	1	3	4	2	3
Bromic Acid	1	2	1	2	3	4	4	4
Bromine - Liquid	4	4	3	4	4	4	4	4
Bromine - Water	4	4	3	4	4	4	4	4
Bromobenzene	4	4						
Bromochloromethane	4	4						
Bromotoluene	4	4						
Bunker Oil	4	4						

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Butadiene	3	4						
Butane	1	1	1	1	1	1	1	1
Butanol - Primary	4	4					3	4
Butanol - Secondary	4	4					3	4
Butter	2	3						
Butyl Acetate	1							
Butyl Alcohol	1	2	1	2	1	2	3	4
Butyl Cellosolve	4	4	3	4				
Butyl Mercaptan	4	4						
Butyl Phenol	3	4	2	3				
Butyl Stearate	1							
Butylene	1	2	1	1	1	1	1	1
Butyric Acid 20%	3	4	2	3	3	4	3	4
Butynedial	4	4					4	4
Cake Alum Solution	1							
Calcium Arsenate	1							
Calcium Bisulfate	1	1	1	1	1	1		
Calcium Bisulfide	2							
Calcium Bisulfite	1	1					1	1
Calcium Carbonate	1	1	1	1	1	1	1	1
Calcium Chlorate	1	1	1	1	2	3	2	3
Calcium Chloride	1	1	1	1	3	4	3	4
Calcium Hydrosulfide	2							
Calcium Hydroxide	1	1	1	1	2	3	2	3
Calcium Hypochlorite	1	1	1	1	4	4	4	4
Calcium Metasilicate	1							
Calcium Nitrate	1	1	1	1	1	1	1	1
Calcium Silicate	1							
Calcium Sulfate	1	1	1	1	1	1	1	1
Calcium Sulfide	2							
Cane Sugar Liquors								
Carbolic Acid	4	4						
Carbon Bisulfide	1	1						
Carbon Dioxide	1	1						
Carbon Disulfide	4	4						
Carbon Monoxide	1	1	1	1	1	1	1	1
Carbon Tetrachloride	4	4	2	3	3	4	3	4
Carbolic Acid	4	4						
Carbonic Acid	1	1	1	1	4	4	4	4
Carrots	1	1	1	1	4	4		
Casein	1	2					1	1
Castor Oil	1	1	1	1	1	1	1	1
Catsup	1	2						
Caustic Potash	1	1	1	1	3	4	3	4
Caustic Soda	1	1	1	1	3	4	3	4
Cellosolve	3	4	2	3	2	3	2	3
Cellulose Acetate	1							
Cellulose Butyl	1							
Cheese	1	2						
Cherries	1	1						
China-Wood Oil	2							
Chlordane	2							
Chloroacetic Acid	1	4					4	4
Chloral Hydrate	1	1					2	3
Chloric Acid 20%	1	1					4	4
Chlorinated Hydrocarbons	1	1					4	4
Chlorinated Solvents	4	4						
Chlorine Gas - dry	1	1	1	1	4	4	4	4
Chlorine Gas - moist	3	4	2	3	3	4	4	4
Chlorine Trifluoride	4	4						
Chloroacetyl Chloride	1							
Chlorobenzene	4	4						
Chlorobromomethane	4	4						
Chloroethane	4	4						



# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Chloroform	4	4						
Chloropentane	4	4						
Chloropicrin Mixture	4	4						
Chlorotoluene	4	4						
Chlorox	1							
Chlorsulfonic Acid	3	4					4	4
Chocolate	2	3						
Chocolate Syrup	1							
Chromic Chloride	1							
Chrome Alum	1	1	1	1	1	1	1	1
Chromic Acid 25%	2	3	1	2	4	4	4	4
Chromic Acid 50%	2	3	1	2	4	4	4	4
Chromium Trioxide	4	4						
Cider	2							
Citgo FR Fuels	2							
Coal Gas	1							
Coal Tar	4	4	3	3			4	4
Coconut Oil	3	4	1	1	1	1	1	1
Cola Beverage	1	1						
Copper Chloride	1	2	1	1	1	1	1	1
Copper Cyanide	1	1						
Copper Flouride 2%	1	1					1	1
Copper Nitrate	1	2	1	1	1	1	1	1
Copper Sulphate	1	2					1	1
Core Oils	1	1					1	1
Corn Oils	1	2						
Cottonseed Oil	2	3					1	1
Creosole	4	4	3	4	3	4		
Creosote	4	4	3	4				
Cresylic Acid 50%	4	4					4	4
Crude Oil Sour	1	1	1	1	1	1	1	1
Crude Oil Sweet	1	1	1	1	1	1	1	1
Crude Wax	1							
Cupric Chloride	1							
Cupric Cyanide	1							
Cupric Nitrate	1							
Cupric Sulfate	1							
Cyanide, Copper	1							
Cyanide, Silver	1							
Cyanide Sodium	1							
Cyclohexane	4	4						
Cyclohexanol	4	4					3	4
Cyclohexanone	4	4					4	4
Cymene	4	4						
Decanol	4	4						
Deicing Fluid	1	1						
Deminerlized Water	1	1	1	1	3	4	2	4
Denatured Alcohol	1							
Detergents, synthetic	1	2	1	1				
Developers, photographic	1	1	1	1				
Dextrin	1							
Dextron	2							
Dextrose	1	2	1	1	1	1	1	1
Diacetone	4	4						
Diacetone Alcohol	4	4						
Diammonium Phosphate	1							
Diazinon	2							
Diazo Salts	1	1						
Dibutyl Phthalate	1							
Dibutylamine	4	4						
Dichlorobenzene	4	4						
Dichlorobenzyl Chloride	4	4						
Dichloroethane	4	4						
Dichloroethylene	4	4						

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Dichloroethylene	4	4						
Dichloromethane	4	4						
Diesel Oils	3	4	1	2				
Diethanolamine	2							
Diethyl Ether	2							
Diethyl Ketone	4	4						
Diethyl Oxalate	4	4						
Diethylene Dioxide	2							
Diethylene Ether	4	4						
Diethylene Glycol	1							
Diglycolic Acid	1	2						
Dihydroxyethyl Ether	1							
Dimethylamine	4	4					4	4
Dimethylbenzene	4	4						
Dimethylcarbonal	2							
Dimethylketone	4	4						
Diocetyl Phthalate	4	4						
Diocetyl Phosphite	4	4						
Dioxane	4	4						
Disodium Phosphate	1	1	1	1	1	1	1	1
Distilled Water	1	1	1	1	3	4	2	4
DMB ( Dimethylbenzene )	4	4						
Duro Oils	2							
EDB (Ethylene Dibromide)	4	4						
Eggs	1	1						
Emulsions, photographic	1	1						
Enamels	2							
Essential Oils	2							
Ethanolamine	2							
Ethers	4	4					2	3
Ethyl Acetate	4	4						
Ethyl Acrylate	4	4						
Ethyl Alcohol	2	3						
Ethyl Alcohol 50-98%	3	4						
Ethyl Bromide	4	4						
Ethyl Chloride	4	4	4	4	4	4	4	4
Ethyl Ether	4	4					2	3
Ethyl Ether Acetate	1							
Ethyl Mercaptan	4	4						
Ethyl Methyl Ketone	4	4						
Ethylbutanol	1							
Ethylbutyl Alcohol	1							
Ethylene Bromide	1	4	1	3	4	4	4	4
Ethylene Chlorohydrin	4	4						
Ethylene Dibromide	4	4						
Ethylene Dichloride	4	4					4	4
Ethylene Glycol	1	1	1	1	2	3	2	3
Ethylene Oxide	4	4					4	4
Ethylhexanol	1							
Ethylhexyl Acrylate	4	4						
Ethylhexyl Alcohol	1							
Fatty Acid	2							
Fatty Alcohol, Blend	1							
Ferric Chloride	1	1	1	1	2	3	2	3
Ferric Nitrate	1	1	1	1	1	1	1	1
Ferric Sulphate	1	1	1	1	1	1	1	1
Ferrous Chloride	1	1					1	1
Ferrous Nitrate	2							
Ferrous Sulfate Solution	1							
Fertilizer	2							
Figs	1	1						
Fish Solubles	1	1						
Fixing Solutions, photographic	1	2						
Flour	1	4						

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Fluorobc Acid	1	1	1	1	1	1		
Fluorine	4	4					4	4
Fluosilic Acid	4	4						
Foric Acid	1	3					4	4
Formaldehyde Solution (to 50%)	1							
Formalin	1							
Formic Acid 3%	1	2						
Formic Acid 10%	1	2					4	4
Formic Acid 25%	1	2					4	4
Formic Acid 50%	3	4					4	4
Freon-12	1	2	1	1	1	1	1	1
Fructose	1	1	1	1	1	1	1	1
Fruit Pulp and Juices	1	1					1	1
Fuel Oil	2	3	1	1	1	2	1	1
Fumaric Acid	4	4						
Furan	4	4						
Furfural	4	4					4	4
Furfuryl Alcohol	1	3						
Fusel Oil	1							
Gallic Acid Solution	4	4						
Gasohol	4	4						
Gas - cook oven	2	2	1	2	2	2	2	2
Gas - natural (dry)	1	1	1	1	1	1	1	1
Gas- natural (wet)	1	1	1	1	1	1	1	1
Gasoline	4	4						
Gasoline - refined	3	4	1	1	2	3		
Gasoline, Unleaded	4	4						
Gasoline, White	4	4						
Gelatin	1	1	1	1	1	1	1	1
Gin	1	2						
Ginger Ale	1	1						
Glacial Acetic Acid	4	4						
Glucose	1	1	1	1	1	1	1	1
Glue	1							
Glycerine	1	1	1	1	1	1		
Glycerol	1	1						
Glycol	1	1	1	1	2	2	1	1
Glycolic Acid 30%	1	1					4	4
Grape Juice	1	1						
Grapefruit Juice	1	1						
Grease	1							
Green Liquor (paper)	1	1						
Heptachlor	4	4						
Heptane	3	4	1	2	1		1	
Heptanol	1							
Hexane	3	4						
Honey	1	1						
HPO (Sodium Thiosulfate)	1							
Hydraulic Fluid	1							
Hydraulic Fluid HF-18, HF-20	2							
Hydrazine	4	4						
Hydro-Drive Oil (houghton)	2							
Hydrobromic Acid	4	4						
Hydrochloric Acid 10%	1	1	1	1	4	4	4	4
Hydrochloric Acid 48%	3	4					4	4
Hydrocyanic Acid	4	4						
Hydrofluoric Acid 4%	2	3					4	4
Hydrofluoric Acid 10%	3	3					4	4
Hydrofluoric Acid 48%	3	4					4	4
Hydrofluoric Acid 60%	3	4					4	4
Hydrofluosilicic Acid	4	4					4	4
Hydrogen	1	2	1	1	1	1	1	1
Hydrogen Bromide (Dry) (liquid)							1	1
Hydrogen Cyanide	1	1					4	4

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Hydrogen Peroxide	4	4						
Hydrogen Peroxide 12%	1	2	1	1	2	3		
Hydrogen Peroxide 50%	1	3	1	2	3	4	2	3
Hydrogen Peroxide 90%	4	4	3	4	4	4	4	4
Hydrogen Phosphide	1	3						
Hydrogen Sulfide - Aqueous Solution	1	1						
Hydrogen Sulfide - Dry	1	1						
Hydrolube (water glycol)	1	1						
Hydrolubric Oil	2							
Hydroquinone Solution	2							
Hydroxylamine Sulfate	1	1						
Hypochlorous Acid	1	1					3	4
Iodine	4	4						
Iron Acetate Liquor	1							
Iron Salts	1							
Iron Sulfate Solution	1							
Isobutanol	2							
Isobutyl Alcohol	2							
Isooctane	4	4						
Isopropanol	2							
Isopropyl Acetate	4	4						
Isopropyl Alcohol	1	2	1	1	3	4		
Isopropyl Ether	4	4						
JP 3, 4, 5	4	4	2	3	3	3	2	3
Jelly	1	1						
Jet Fuel - All Types	4	4						
Karo Syrup	1	1						
Kerosene	4	4	1	1	1	1	1	2
Ketones	4	4						
Kraft Liquor (paper)	1	1						
Lacquer Thinner	3	4	2	2	3	3	2	
Lactic Acid 28%	1	1					4	4
Lard	2	3						
Lard Oil	1	2					1	2
Latex Paint	1							
Lauric Acid	1	1	1	1	3	4	3	4
Lauryl Chlorite	1	1					1	2
Lauryly Sulfate	1	1						
Lead Acetate	1	1	1	1	1	1	1	1
Lead Nitrate Solution	1							
Lead, Tetraethyl	1							
Lemon Juice	1	2						
Ligroin	4	4						
Lime, Chlorinated	2							
Lime, sulfur	1	1						
Linoleic Acid	1							
Linseed Oil	1	1	1	1	1	1	1	1
Liquid Soap	2							
Liquors	1	2						
Lubricating Oils	4	4	1	1	1	1	1	1
Machine Oil under 135°F	2							
Magnesium Carbonate	1	1	1	1	1	1	1	1
Magnesium Hydroxide	1	1	1	1	3	4	2	3
Magnesium Nitrate	1	1					1	1
Magnesium Sulfate Solution	1							
Malathion	1							
Maleic Acid Solution	4	4						
Manganese Salts	1							
Manganese Sulfate Solution	1							
Mayonnaise	1	1						
MBK (Methyl Butyl Ketone)	4	4						
MEA (Ethanalamine)	2							
MEK (Ethyl Methyl Ketone)	4	4						
Mercuric Chloride	2	2	1	1	2	3	2	3

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Mercuric Chloride Solution	2							
Mercuric Cyanide	2	2						
Mercuric Nitrate	2	2					2	2
Mercury	2	2						
Mesitylene	4	4						
Mesityl Oxide	4	4						
Mesitylene	4	4						
Methanol	4	4	4	4	4	4	4	4
Methyl Acetate	4	4						
Methyl Acetone	1							
Methyl Alcohol	3	4	2	3	3	4	4	4
Methyl Bromide	4	4						
Methyl Butanathiol	4	4						
Methyl Butanol	1							
Methyl Chloride	4	4					4	4
Methyl Chloroform	4	4						
Methyl Cyanise	1							
Methyl Ethyl Ketone	4	4	2	3	3	4		
Methyl Isobuteryl Ketone	4	4						
Methyl Isobutyl Ketone	4	4						
Methyl Isopropyl Ketone	4	4						
Methyl Methacrylate	1							
Methyl Methacrylate Monomer	4	4						
Methyl Propyl Ketone	4	4						
Methyl Slaicylate	1							
Methyl Sulfate	1							
Methylamine	4	4						
Methylaniline	4	4						
Methylene Bromide	4	4						
Methylene Chloride	4	4						
Methylene Dichloride	4	4						
Milk	1	1					1	1
Mineral Oils	1	2	1	1	1	1	1	1
Molasses	1	1	1	1	1	1	1	1
Monochlorobenzene	4	4						
Monomethylamine	4	4						
Monosodium Phosphate	1							
Motor Oil	3							
Muriatic Acid	4	4						
N-Octane	4	4						
Naphthenic Acid	1							
Naptha	4	4	1	1				
Napthalene	3	4	1	1				
Nickel Chloride Solution	1	1					1	1
Nickel Nitrate Solution	2						1	1
Nickel Plating Solution	4	4						
Nickel Salts	2							
Nickel Sulfate Solution	1							
Nicotine	1	1					1	1
Nicotine Acids	1	2	1	1	3	4	3	4
Nicotine Salts	1							
Niter Cake	1							
Nitric Acid 10%	1	2		1	4	4	4	4
Nitric Acid 40%	2	3	1	1	4	4	4	4
Nitric Acid 60%	3	4	2	3	4	4	4	4
Nitric Acid 68%	3	4	2	3	4	4	4	4
Nitric Acid 70%	4	4	3	3	4	4	4	4
Nitrobenzene	4	4					4	4
Nitrogen	1							
Nitrogen Oxide	4	4						
Nitromethane	4	4						
Nitrous Acid (up to 10%)	1							
Nitrous Oxide	1	1					1	1
Oats	1	4						

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Octadecanoic Acid	1							
Octanol	2							
Octyl Alcohol	2							
Oil of Turpentine	1							
Oils, Animal	2							
Oils, Mineral	4	4						
Oils, Petroleum	1	2	1	1	1	1	1	1
Oleic Acid	2	3	1	1	4	4	4	4
Oleum	4	4	4	4	4	4	4	4
Olive Oil	2	2						
Ortho-Dichlorobenzene	4	4						
Ortho-xylene	4	4						
Oxalic Acid	4	4						
Oxygen	1	1					1	1
Ozone	3	4						
Paint	1							
Para formaldehyde	1	2						
Paraffin	1	2						
Palmitic Acid 10%	1	2					4	4
Palmitic Acid 70%	3	4					4	4
Peaches	1	1						
Peanut Butter	1	2						
Peanut Oil	2							
Peas	1	1						
Pentachlorophenol in Oil	4	4						
Pentane	3	4						
Pentanone	4	4						
Pentasol	2							
Perchloric acid	4	4						
Perchloroethylene	4	4						
Petrol	4	4						
Petroleum Ether	3	3	1	1				
Petroleum Naptha	4	4						
Petroleum Oils (Refined)	1							
Petroleum Oils (Sour)	2							
Phenol	4	4						
Phenol Acid	4	4						
Phenyl Chloride	4	4						
Phenylhydrazine	4	4						
Phenylhydrazine Hydrochloride	3	4						
Phosgene (gas)	1	2						
Phosgene (liquid)	4	4						
Phosphorous (yellow)	2	3						
Phosphorous Pentoxide	4	4						
Phosphorous Trichloride	1	1					1	1
Phosphorous Trichloride	1	1					1	1
Photographic Chemicals	1	1					1	2
Photographic Fixing Solutions	1							
Picric Acid	4	4	4	4	4	4	4	4
Pinene	4	4						
Pitch	2	3	1	1				
Plating Solutions	1	2					1	1
Polyethylene Glycol	2							
Potash	1							
Potassium Acetate	1							
Potassium Acid Sulfate	1	1					1	1
Potassium Antimonate	1	1					1	1
Potassium Bicarbonate	1	1	1	1	1	1	1	1
Potassium Bichromate	1	1					1	1
Potassium Bisulfate	1							
Potassium Bisulfite	1	1					1	1
Potassium Borate 1%	1	1					1	1
Potassium Bisulfate	1							
Potassium Bromate 10%	1	1	1	1	1	1	1	1

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Potassium Bromide	1	1	1	1	1	1	1	1
Potassium Carbonate	1							
Potassium Chlorate	1							
Potassium Chloride	1	1	1	1	1	2	1	2
Potassium Chromate	1						2	2
Potassium Cuprocyanide	1							
Potassium Cyanide	1	1	1	1	1	1	1	1
Potassium Dichromate	1	1					2	2
Potassium Ferrocyanide	1	1					1	1
Potassium Fluoride	1	1	1	1	1	2		
Potassium Hydrate	2							
Potassium Hydroxide	1	1						
Potassium Hypochlorite	2	3					4	4
Potassium Iodide	1							
Potassium Nitrate	1	1	1	1	1	1	1	1
Potassium Perborate	1	1	1	1	1	1	1	1
Potassium Perchlorate	1	1					2	3
Potassium Permanganate	4	4						
Potassium Persulfate	1							
Potassium Sulfate	1							
Potassium Sulfide	1	1	1	1	1	1	1	1
Potassium Sulfite	2							
Potassium Thiosulfate	1							
Potatoes	1	1						
Propane	1	1	1	1	1	1	1	1
Propargyl Alcohol	1	1						
Propyl Alcohol	1	2	1	1	2	3	2	3
Propylene Dichloride	4	4					4	4
Propylene Glycol	1						4	4
Prune Juice	1	1						
Puopale RX Oils	2							
Pyrene	4	4						
Pyrethrum	2							
Pyridine	4	4						
Pyrogard C, D	2							
Red Oil	2							
Regal Oils R&O	2							
Richfield A Weed Killer	1	2						
Rubilene Oils	2							
Salicylic Acid	1							
Salt Water	1	1	1	1	2	3	2	4
Sauerkraut	2							
Selenic Acid	1	2					4	4
Sewage	2							
Shortening	2	3						
Silicic Acid	1	1					4	4
Silicone Greases	2							
Silicone Oils	2							
Silver Cyanide	1	1					1	1
Silver Nitrate	1	1	1	1	1	1		
Silver Plating Solution	1	2	1	1	1	1	1	1
Skydrol 500A & 7000	4	4						
Soap	1	1	1	1	2	3	2	4
Soda Ash	1							
Soda Water	1	1						
Sodium Acetate	1	1					1	1
Sodium Alminate Solution	2							
Sodium Arsenite	1	1					1	1
Sodium Benzoate	1	2	1	1	1	1	1	1
Sodium Bicarbonate	1	1	1	1	1	1	1	1
Sodium Bichromate Solution	2							
Sodium Bisulfite	1							
Sodium Borate	1							
Sodium Bromide	1	1	1	1	1	2	1	2

# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Sodium Carbonate (soda ash)	1	1	1	1	1	2	1	1
Sodium Chlorate	2	3	1	2	3	3	2	2
Sodium Chloride	1	1	1	1	1	2	1	2
Sodium Chlorite Solution	2							
Sodium Chromate	2							
Sodium Cyanide	1	1	1	1	1	1	1	1
Sodium Dichromate	1	2	1	2	1	2	1	2
Sodium Ferricyanide	1	1					1	1
Sodium Ferrocyanide	1	1					1	1
Sodium Fluoride (70%)	1	1					1	2
Sodium Hydrate	2							
Sodium Hydrochlorite	2							
Sodium Hydrosulfide	1							
Sodium Hydrosulfite	2							
Sodium Hydroxide 10%	1	1	1	1	3	4	3	4
Sodium Hydroxide 35%	1	2	1	1	4	4	4	4
Sodium Hydroxide 50%	1	3	1	2				
Sodium Hypochlorite (20%)	1	1					4	4
Sodium Hyposulfate	1							
Sodium Metaphosphate	1							
Sodium Nitrate	1	1					1	1
Sodium Nitrite	1	1					1	1
Sodium Peroxide	1							
Sodium Phosphate	1							
Sodium Phosphate Acid	2	2	1	2	4	4		
Sodium Silicate	1							
Sodium Sulfate	1							
Sodium Sulfhydrate	2							
Sodium Sulfide	1	1					1	1
Sodium Sulfite	1	1					1	1
Sodium Sulphrydate	2							
Sodium Thiosulfat	1	1					1	2
Solnus Oils	1							
Sour Crude Oil	4	4						
Soya Beans	1	4						
Soya Oil	1	3						
Soybean Oil	1	1						
Spent Acid	4	4						
Spinach	1	1						
Squash	1	1						
Stannic Chloride	2							
Stannic Chloride	1	1	1	1	1	2	1	2
Starch	1							
Starch Gum	1							
Stearic Acid	1							
Stoddard Solvent	2							
Straight Synthetic Oils	2							
Styrene	4	4						
Sugar - all forms	1	1						
Sulfamic Acid	4	4						
Sulfate Liquors under 150° F	1							
Sulfur	2	2						
Sulfur Chloride	2							
Sulfur Dioxide (dry)	1							
Sulfur Dioxide (liquid)	4	4						
Sulfur Hexafluoride (Gas)	2							
Sulfur Trioxide	1							
Sulfuric Acid 10%	1	2	1	1	3	4	3	4
Sulfuric Acid 70%	1	2	1	1	4	4	4	4
Sulfuric Acid 95%	3	3	1	2	4	4	4	4
Sulfurous Acid	2	3	1	2	4	4	4	4
Sulphur Dioxide Gas - dry	1	1						
Sulfur Dioxide Gas - wet	4	4						
Sulfur Dioxide - Liquid	3	4						



# TABLE OF CHEMICAL RESISTANCE PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Sun R&O Oils	2							
Suntac HP Oils	2							
Suntac WR Oils	2							
Sunvis Oils 700, 800, 900	2							
Synthetic Oil (Citgo)	2							
Tall Oil	4	4						
Tallow	2							
Tannic Acid	1	1	1	1	3	4	3	4
Tanning Liquors	1	1						
Tar Oil	2							
Tartaric Acid	1	2	1	1	2	3	3	4
TEA (Triethanolamine)	2	3						
Tellus Oils	2							
Tenol Oils	2							
Terpineol	2							
Tetrachloroethane	4	4						
Tetraethyl Lead	2	3						
Tetrahydrofuran	4	4						
Tetrahydrodicyclopentadiene	4	4						
THF (Tetrahydrofuran)	4	4						
Thionyl Chloride	4	4					4	4
Tin Chloride	1	1	1	1	1	1		
Titanium Tetrachloride	1	4					3	4
Toluene	4	4	2	2	3	4		
Toluol	4	4						
Tomatoes	1	1						
Tributyl Phosphate	4	4						
Trichloroethylene	4	4					3	4
Trichloroethane	4	4						
Tricresyl Phosphate	4	4					4	4
Triethanolamine	3	4						
Triethylamine	2	3						
Trihydroxybenzoic Acid	4	4						
Trimethylbenzene	4	4						
Trimethyl Propane	3	4						
Trinitrophenol	1							
Trisodium Phosphate	1	1	1	1	1	1	1	1
Tung Oil	2							
Turpentine	3	4	1	1	2	3	1	2
Ucon Hydrolube Types 150CP, 200CP	2							
Ucon Hydrolube Types 275CP, 300CP, 550CP	2							
Ucon M1	2							
Union Hydraulic Tractor Fluid	2							
Urea	1	2	1	1	1	1	1	1
Urine	1	1	1	1	1	1	1	1
Varnish	4	4	1	1	1	2	1	2
Vegetable Oils	2	3						
Versilube F-50, F-44	2							
Vinegar	1	2					2	3
Vinyl Acetate	4	4					4	4
Vinyl Chloride	4	4						
Vinyl Trichloride	4	4						
Vitrea Oils	2							
Vodka	1	2						
Water Acid - mine water	1	1	1	1	3	4	2	4
Water in Oil Emulsions	1							
Water - distilled	1	1	1	1	3	4	2	4
Water - fresh	1	1	1	1	3	4	2	4
Water - salt	1	1	1	1	3	4	2	4
Whiskey	1	2						
White Gasoline	1	1	1	1	1	2	1	2
White Liquor (paper)	1	1						
Wines	1	2						

# TABLE OF CHEMICAL RESISTANCE PVC,TPR,TPE & POLYURETHANE

1-EXCELLENT

2-GOOD

3-LIMITED

4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature								
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)		
	68	104	68	104	68	104	68	104	
Wood Oil	1								
Xylene	4	4	1	1	2	3	2	3	
Xylol	4	4	1	1	2	3	2	3	
Yeast	1	2							
Yogurt	1	2							
Zeric	2								
Zinc Acetate	1								
Zinc Chloride Solutions	1								
Zinc Chromate	1	1	1	1	1	1	1	1	
Zinc Cyanide	1	1	1	1	1	1	1	1	
Zinc Hydrate	1								
Zinc Nitrate	1	1	1	1	1		1	1	
Zinc Sulfate	1	1	1	1	1	1	1	1	