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# **CHEMICAL RESISTANCE**

## **GUIDE**

The following guide has been prepared to assist in the selection of the correct hose for an application.

A hose's resistance to the effects of a chemical depends not only upon the particular chemical, but also on other factors such as service temperature, length of exposure, pressure and conditions which may be beyond our control.

Therefore the recommendations are made without guarantee or warranty.

As we use plasticisers to give our hoses their flexibility, some solvents will extract these plasticisers thus making the hose become hard. Some oils & petrols will also extract the plasticiser, but in some cases the hose will retain its flexibility as long as it is not allowed to dry out. The oil actually replaces the role of the plasticiser and the hose will remain flexible whilst the oil or petrol remains in the hose and not allowed to evaporate.

# Chemical Resistance Guide



Key: E=Excellent G=Good L=Limited U=Unsatisfactory C=Cautionary

Material Handled	PVC LLDPE EVA						Material Handled	PVC LLDPE EVA					
	Temperature (°C)							Temperature (°C)					
	20	65	20	65	20	65		20	65	20	65	20	65
Acetaldehyde	U	U	G	L	G	U	Aniline Hydrochloride	U	U	U	U	U	U
Acetate Solvents- Pure	U	U	E	G	L	U	Animal Oils	L	U	L	U	L	U
Acetic Acid - Glacial	L	U	L	U	U	U	Anthraquinone	E	E	E	E	E	-
Acetic Acid - 0-10%	E	G	E	G	E	E	Anthraquinonesulfonic Acid	E	E	E	E	E	-
Acetic Acid - 10-20%	G	L	E	G	E	G	Anitomy Trichloride	E	E	E	E	E	-
Acetic Acid 20-30 Pct	G	L	E	G	E	L	Apple (Sauce or Juice)	E	E	E	E	-	-
Acetic Acid 30-60%	G	L	G	L	L	U	Aqua Regia	L	U	U	U	U	U
Acetic Acid 80%	L	L	U	U	L	U	Aromatic Hydrocarbons	U	U	-	-	-	-
Acetic Acid Vapors	G	G	G	L	G	L	Arsenic Acid 80%	E	G	E	G	G	-
Acetic Anhydride	U	U	U	U	L	L	Arylsulfonic Acid	L	U	-	-	-	-
Acetone	U	U	E	G	L	U	Asphalt	L	U	L	U	U	U
Acetylene	C	C	U	U	U	U	Barium Carbonate	E	E	E	E	E	-
Acrylonitrile	L	U	-	-	-	-	Barium Chloride	E	E	E	E	E	-
Adipic Acid	G	L	E	G	E	G	Barium Hydroxide	E	E	E	E	E	-
Allyl Alcohol 96%	U	U	E	G	E	G	Barium Sulfate	E	E	E	E	E	-
Allyl Chloride	U	U	G	L	L	U	Barium Sulfide	E	E	E	E	E	-
Alum	E	E	E	E	E	G	Beer	E	L	E	L	-	-
Aluminum Chloride	E	E	G	G	G	C	Beet-Sugar Liquor	E	E	E	E	E	-
Aluminum Fluoride	G	G	G	G	G	L	Benzaldehyde	U	U	E	G	L	U
Aluminium Hydroxide	E	E	G	G	G	G	Benzene	U	U	E	L	U	U
Aluminium Nitrate	E	E	E	E	E	-	Benzoic Acid	G	L	G	G	G	-
Aluminium Oxychloride	E	E	G	G	G	-	Benzol	U	U	U	U	U	U
Aluminium Sulfate	E	E	E	E	E	-	Bismuth Carbonate	E	E	E	E	E	-
Ammonia - Aqueous	L	U	E	G	E	-	Black Liquor (Paper Ind)	E	E	E	E	E	-
Ammonia - Dry Gas	L	U	E	G	E	-	Bleach 12.5% Active CL	G	L	G	L	G	-
Ammonia - Liquid	U	U	E	L	E	U	Borax	E	E	E	E	E	-
Ammonium Carbonate	E	E	E	E	E	-	Boric Acid	E	E	E	E	E	-
Ammonium Chloride	E	E	E	E	E	-	Boron Trifluoride	E	E	E	E	E	-
Ammonium Fluoride 25%	U	U	G	G	G	-	Brake Fluid	U	U	-	-	-	-
Ammonium Hydroxide 28%	L	U	E	E	E	E	Brine	E	E	E	E	E	-
Ammonium Metaphosphate	E	E	G	G	E	E	Bromic Acid	E	L	G	G	G	-
Ammonium Nitrate	E	E	E	E	E	-	Bromine - Liquid	U	U	U	U	U	U
Ammonium Persulfate	E	E	E	E	E	-	Bromine - Water	U	U	U	U	U	U
Ammonium Phosphate	G	G	E	G	E	-	Butadiene	L	U	U	U	U	U
Ammonium Phosphate - Neutral	E	E	E	G	E	-	Butane	C	C	U	U	U	U
Ammonium Sulfate	E	E	E	E	E	-	Butanol - Primary	U	U	E	G	G	-
Ammonium Sulfide	E	E	E	E	E	-	Butanol - Secondary	U	U	E	G	G	-
Ammonium Thiocyanate	E	E	E	E	E	-	Butter	L	L	L	L	-	-
Amyl Acetate	U	U	L	U	U	-	Butyl Acetate	U	U	U	U	U	U
Amyl Alcohol	L	U	G	L	G	L	Butyl Alcohol	L	U	E	G	E	G
Amyl Chloride	U	U	U	U	U	-	Butyl Cellosolve	U	U	E	G	-	-
Aniline	U	U	U	U	U	U	Butyl Phenol	L	U	U	U	-	-
Aniline Chlorohydrate	U	U	U	U	U	U	Butylene	C	C	U	U	-	-
							Butyric Acid 20%	L	U	U	U	U	U

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	Temperature (°C)							Temperature (°C)					
	20	65	20	65	20	65		20	65	20	65	20	65
Calcium Bisulfite	E	E	E	E	E	-	Copper Chloride	E	E	E	E	E	-
Calcium Carbonate	E	E	E	E	E	-	Copper Cyanide	E	E	E	E	E	-
Calcium Chlorate	E	E	E	E	E	-	Copper Fluoride 2%	E	E	E	E	E	-
Calcium Chloride	E	E	E	E	E	-	Copper Nitrate	E	G	E	G	E	-
Calcium Hydroxide	E	E	E	E	E	-	Copper Sulfate	E	G	E	E	E	-
Calcium Hypochlorite	E	E	G	E	G	-	Corn Oils	E	G	L	U	-	-
Calcium Nitrate	E	E	E	E	E	-	Cottonseed Oil	G	L	E	G	E	-
Calcium Sulfate	E	E	E	E	E	-	Creosote	U	U	U	U	U	U
Cane Sugar Liquors	E	E	G	G	G	-	Cresol	U	U	U	U	U	U
Carbon Bisulfide	U	U	U	U	U	U	Cresylic Acid 50%	U	U	U	U	U	U
Carbon Dioxide							Crude Oil	L	U	U	U	U	U
(Aqueous Solution)	E	E	E	E	E	-	Cyclohexane	U	U	G	G	L	U
Carbon Dioxide Gas (Wet)	E	E	G	G	G	-	Cyclohexanol	U	U	G	L	E	L
Carbon Monoxide	E	E	G	G	G	-	Cyclohexanone	U	U	G	L	E	L
Carbon Tetrachloride	U	U	L	U	U	U	Deminerlized Water	E	E	E	E	E	E
Carbonic Acid	L	U	G	G	G	G	Dextrin	E	E	E	E	E	-
Casein	E	L	E	E	E	-	Dextrose	E	G	E	E	E	-
Castor Oil	E	E	L	U	L	U	Di-acetone Alcohol	-	-	E	G	-	-
Caustic Potash	E	E	L	L	L	-	Dichlorobenzene	U	U	L	U	U	U
Caustic Soda	E	E	L	L	G	-	Diesel Oils	L	U	-	-	-	-
Cellosolve	L	U	G	L	L	U	Diethyl Ether	U	U	G	L	U	U
Chloracetic Acid	E	U	G	L	U	U	Diethylene Glycol	G	L	E	G	G	L
Chloral Hydrate	E	E	U	U	L	U	Diglycolic Acid	E	G	E	G	E	-
Chloric Acid 20%	E	E	-	-	-	-	Di-isodecyl Phthalate	U	U	-	-	-	-
Chlorinated Hydrocarbons	U	U	U	U	U	U	Dimethylamine	U	U	U	U	U	U
Chlorine Gas (Dry)	G	G	U	U	U	U	Diocyl Phthalate	U	U	G	L	G	U
Chlorine Gas (Moist)	L	U	U	U	U	U	Disodium Phosphate	E	E	E	E	E	-
Chlorine Water 2%	G	L	G	L	G	L	Distilled Water	E	E	E	E	E	E
Chlorine Water Saturated	L	U	E	G	E	L	Ethers	U	U	G	L	U	U
Chlorobenzene	U	U	U	U	U	U	Ethyl Acetate	U	U	E	G	L	U
Chloroform	U	U	L	U	U	U	Ethyl Acrylate	U	U	-	-	-	-
Chlorsulfonic Acid	L	U	U	U	U	U	Ethyl Alcohol 0 - 50%	G	L	E	E	G	L
Chrome Alum	E	E	E	G	E	G	Ethyl Alcohol 50-98%	L	U	E	G	L	U
Chromic Acid 10%	G	L	G	L	G	-	Ethyl Chloride	U	U	U	U	U	U
Chromic Acid 25%	G	L	G	L	G	-	Ethyl Ether	U	U	U	U	U	U
Chromic Acid 30%	L	U	L	U	L	U	Ethylene Bromide	E	U	U	U	U	U
Chromic Acid 40%	L	U	L	U	L	U	Ethylene Dichloride	U	U	U	U	U	U
Chromic Acid 50%	L	U	L	U	L	U	Ethylene Glycol	E	E	E	G	E	G
Chromic Acid Plating Solution	-	-	-	-	E	E	Ethylene Oxide	U	U	U	U	U	U
Cider	E	L	E	G	E	L	Fatty Acids	E	E	G	L	L	U
Citric Acid	E	E	E	E	E	E	Ferric Chloride	E	E	E	E	E	-
Coal Tar	U	U	U	U	U	U	Ferric Nitrate	E	E	E	E	E	-
Coconut Oil	G	L	G	L	L	U	Ferric Sulfate	E	E	E	E	E	-
							Ferrous Chloride	E	E	E	E	E	-

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	20	65	20	65	20	65		20	65	20	65	20	65
Ferrous Sulfate	E	E	E	E	E	-	Hydrogen Cyanide	C	C	C	C	C	C
Fish Solubles	E	E	E	E	E	-	Hydrog. Peroxide 3-12%	E	G	G	L	G	L
Fluorine Gas - Dry	U	U	U	U	U	U	Hydrogen Peroxide 30%	E	G	G	L	G	L
Fluorine Gas - Wet	U	U	U	U	U	U	Hydrogen Peroxide 50%	E	L	L	U	U	U
Fluoroboric Acid	E	E	E	G	E	-	Hydrogen Peroxide 90%	U	U	U	U	U	U
Fluorosilicic Acid	E	E	G	L	G	-	Hydrogen Phosphide	E	L	G	G	E	E
Foric Acid	E	L	E	G	E	E	Hydrogen Sulfide						
Formaldehyde							(Aqueous Solution)	E	E	E	G	E	-
(40% Aqueous)	U	U	G	L	E	G	Hydrogen Sulfide - Dry	E	E	E	G	E	-
Formic Acid 3%	-	-	-	-	E	E	Hydrombromic Acid 20%	E	G	G	G	G	-
Formic Acid 10%	-	-	-	-	E	E	Hydroquinone	E	E	E	E	E	-
Formic Acid 25%	-	-	-	-	E	E	Hypochlorous Acid	E	E	E	G	L	U
Formic Acid 50%	-	-	-	-	E	E	Inks	-	-	E	E	E	E
Formic Acid 100%	-	-	-	-	U	U	Iodine (In Alcohol)	U	U	U	U	U	U
Freon - 12	L	U	G	L	G	-	Iso-octane	L	U	-	-	-	-
Fructose	E	E	E	E	E	-	Isopropyl Acetate	U	U	-	-	-	-
Fruit Pulps & Juices	E	E	E	E	E	-	Isopropylalcohol	E	G	E	E	E	-
Fuel Oil	G	L	G	U	U	U	Jelly	E	E	-	-	-	-
Furfural	U	U	U	U	U	U	Jet Fuels JP 3,4,5	U	U	-	-	-	-
Furfuryl Alcohol	-	-	-	-	U	U	Kerosene	U	U	L	U	U	U
Gallic Acid	E	E	E	E	E	-	Ketones	U	U	E	G	L	U
Gas - Natural (Dry)	C	C	U	U	U	U	Lacquer Thinners	U	U	E	G	L	U
Gas - Natural (Wet)	C	C	U	U	U	U	Lactic Acid 28%	E	E	E	E	E	-
Gelatine	E	E	E	E	E	-	Lard Oil	E	G	G	L	G	L
Glucose	E	E	E	E	E	-	Lauric Acid	E	E	L	U	-	-
Glycerine (Glycerol)	E	E	E	E	E	-	Lauryl Chloride	E	E	L	U	L	-
Glycol	E	E	E	E	E	-	Lauryl Sulfate	E	E	U	U	U	U
Glycolic Acid 30%	E	E	E	E	E	-	Lead Acetate	E	E	E	E	E	-
Grease	E	L	-	-	-	-	Lead Arsenate	E	E	-	-	E	E
Heptane	L	U	U	U	U	U	Lead Nitrate	E	E	-	-	E	E
Hexadecanol	-	-	-	U	U	U	Lead Tetra-ethyl	E	E	-	-	E	E
Hexane	L	U	E	E	-	-	Lemon Juice	E	G	-	-	-	-
Hexanol, Tertiary	L	U	G	L	L	U	Lime Sulfur	E	E	G	G	G	-
Hydrobromic Acid 20%	E	G	G	G	G	-	Linoleic Acid	E	E	-	-	-	-
Hydrochloric Acid 10%	E	G	E	E	E	E	Linseed Oil	E	E	L	U	L	U
Hydrochloric Acid 48%	E	G	E	G	G	-	Liquors (Chemical)	E	G	E	G	E	G
Hydrofluoric Acid 4%	G	G	G	G	E	E	Lubricating Oils	G	L	U	U	U	U
Hydrofluoric Acid 10%	G	L	G	G	E	E	Magnesium Carbonate	E	E	E	E	E	-
Hydrofluoric Acid 48%	G	U	G	L	E	E	Magnesium Chloride	E	E	E	E	E	-
Hydrofluoric Acid 60%	G	U	G	L	E	E	Magnesium Hyrdoxide	E	E	E	E	E	-
Hydrofluorosilic Acid	G	L	-	-	-	-	Magnesium Nitrate	E	E	E	E	E	-
Hydrogen	C	C	C	C	C	C	Magnesium Sulfate	E	E	E	E	E	-
Hydrogen Bromide (Dry)					E	E	Maleic Acid 25% Aqueous	E	E	G	G	E	E
Hydrogen Chloride (Dry)					E	E	Maleic Acid 50%	-	-	E	E	E	E

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	Temperature (°C)							Temperature (°C)					
	20	65	20	65	20	65		20	65	20	65	20	65
Maleic Acid Concentrated	-	-	E	G	E	G	Orange Juice	E	E	G	L	-	-
Malic Acid	E	E	G	G	G	-	Oxalic Acid	E	G	E	G	G	G
Mayonnaise	E	E	-	-	-	-	Oxygen	E	G	G	L	G	L
Mercuric Chloride	G	L	G	G	G	G	Ozone	L	U	L	U	U	U
Mercuric Cyanide	U	U	G	G	G	G	Palmitic Acid 10%	E	E	G	L	E	G
Mercurous Nitrate	G	G	G	G	G	-	Palmitic Acid 70%	L	U	G	U	L	U
Mercury	G	G	G	G	G	L	Paraffin	E	G	G	L	L	U
Methyl Acetate	U	U	-	-	U	U	Pentane	L	U	-	-	-	-
Methyl Alcohol	L	U	E	G	E	-	Peracetic Acid 40%	U	U	-	-	-	-
Methyl Bromide	U	U	-	-	U	U	Perchloroethylene	U	U	-	-	-	-
Methyl Chloride	U	U	U	U	U	U	Perchloric Acid 10%	G	L	G	G	G	G
Methyl Ethyl Ketone	U	U	E	G	L	U	Perchloric Acid 70%	L	U	G	L	G	-
Methyl Isobutyl Ketone	U	U	E	G	L	U	Petrol	U	U	-	-	U	U
Methyl Sulfate	E	G	-	-	-	-	Petroleum Ether	L	L	-	-	U	U
Methyl Sulfuric Acid	E	E	G	G	E	E	Phenol	U	U	U	U	U	U
Methylated Spirit	-	-	-	-	E	G	Phenylhydrazine	U	U	L	U	-	-
Methylene Chloride	U	U	U	U	U	U	Phenylhydrazine Hydrochloride	L	U	L	U	-	-
Milk	E	E	E	E	G	L	Phosgene (Gas)	C	C	-	-	C	U
Mineral Oils	G	L	L	U	L	U	Phosgene (Liquid)	U	U	-	-	-	-
Mineral Spirits	-	-	E	G	-	-	Phosphoric Acid 0 -25%	E	G	E	G	E	G
Molasses	E	E	E	E	E	-	Phosphoric Acid 25-50%	E	G	E	G	E	G
Monochlorobenzene	U	U	-	-	-	-	Phosphoric Acid 50-90%	E	G	G	L	E	L
Naphtha	U	U	G	L	U	U	Phosphorus (Yellow)	G	L	L	L	U	U
Napthalene	U	U	L	U	U	U	Phosphorus Pentoxide	L	U	G	L	G	L
Nickel Acetate	E	E	E	E	E	-	Phosphorus Trichloride	U	U	L	U	L	U
Nickel Chloride	E	E	E	E	E	-	Photographic Developers	L	U	E	E	E	E
Nickel Nitrate	E	E	E	E	E	-	Photographic Emulsions	L	U	E	E	E	E
Nickel Sulphate	E	E	E	E	E	-	Photographic Fixers	L	U	E	E	E	E
Nicotine	E	E	E	E	E	-	Picric Acid	U	U	G	U	G	L
Nicotine Acid	E	G	E	E	E	-	Pitch	G	L	E	G	-	-
Nitric Acid (Anhydrous)	U	U	U	U	U	U	Plating Solutions						
Nitric Acid 10%	E	G	G	G	G	G	Brass	E	E	G	G	L	-
Nitric Acid 25%	G	L	G	G	G	L	Cadmium	E	E	G	G	L	-
Nitric Acid 35%	G	L	G	U	L	U	Chromium	G	G	U	U	U	U
Nitric Acid 40%	G	L	L	U	L	U	Copper	E	E	G	G	L	-
Nitric Acid 50%	G	U	L	U	L	U	Gold	E	E	G	G	L	-
Nitric Acid 60%	G	U	L	U	U	U	Judium	E	E	G	G	L	-
Nitric Acid 68%	L	U	U	U	U	U	Lead	E	E	G	G	L	-
Nitric Acid 70%	U	U	U	U	U	U	Nickel	E	E	G	G	L	-
Nitrobenzene	U	U	U	U	U	U	Rhodium	E	E	G	G	L	-
Nitrous Oxide	E	E	-	-	-	-	Silver	E	E	G	G	L	-
Oils & Fats	E	G	G	L	G	U	Tin	E	E	G	G	L	-
Oils, Petroleum	E	G	G	L	G	U	Zinc	E	G	G	G	L	-
Oleic Acid	G	L	L	U	U	U	Potable Water	E	G	E	E	E	G
Oleum	U	U	U	U	U	U							

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	20	65	20	65	20	65		20	65	20	65	20	65
Potassium Acid Sulfate	E	E	E	G	G	-	Silver Cyanide	E	E	E	E	E	-
Potassium Antimonate	E	E	E	E	E	-	Silver Nitrate	E	E	E	E	E	-
Potassium Bicarbonate	E	E	E	E	E	-	Silver Plating Solutions	E	G	E	G	E	-
Potassium Bichromate	E	E	E	E	E	-	Soap Solution	E	G	G	L	G	L
Potassium Bisulfite	E	E	E	E	E	-	Sodium Acetate	E	E	E	E	E	-
Potassium Bisulphate	G	L	E	E	E	-	Sodium Acid Sulfate	E	E	E	E	E	-
Potassium Borate 1%	E	E	E	E	E	-	Sodium Antimonate	E	E	E	E	E	-
Potassium Bromate 10%	E	E	E	G	E	-	Sodium Arsenite	E	E	E	E	E	-
Potassium Bromide	E	E	E	G	E	-	Sodium Benzoate	E	G	E	E	E	-
Potassium Carbonate	E	E	E	E	E	-	Sodium Bicarbonate	E	E	E	E	E	-
Potassium Chlorate	E	E	E	E	E	-	Sodium Bisulfate	E	E	E	E	E	-
Potassium Chloride	E	E	E	E	E	-	Sodium Bisulfite	E	E	E	E	E	-
Potassium Chromate 40%	E	E	E	E	E	-	Sodium Bromide	E	E	E	E	E	-
Potassium Cuprocyanide	E	E	E	E	E	-	Sodium Carbonate						
Potassium Cyanide	C	C	C	C	C	C	(Soda Ash)	E	E	E	E	E	-
Potassium Dichromate 40%	E	E	E	E	E	-	Sodium Chlorate	G	L	E	E	E	-
Potassium Ferricyanide	E	E	E	E	E	-	Sodium Chloride	E	E	E	E	E	-
Potassium Fluoride	E	E	E	E	E	-	Sodium Cyanide	E	E	E	E	E	-
Potassium Hydroxide 10%	E	E	E	E	E	-	Sodium Dichromate	E	G	E	E	E	-
Potassium Hydroxide 20%	E	E	E	E	E	-	Sodium Ferricyanide	E	E	E	E	E	-
Potassium Hydroxide 35%	E	E	E	G	G	-	Sodium Ferrocyanide	E	E	E	E	E	-
Potassium Hydroxide Conc	-	-	-	-	E	L	Sodium Fluoride	E	E	E	E	E	-
Potassium Hypochlorite	G	L	G	L	E	-	Sodium Hydroxide 10%	E	E	E	E	E	-
Potassium Nitrate	E	E	G	G	E	E	Sodium Hydroxide 35%	E	G	E	E	E	-
Potassium Perborate	E	E	G	L	E	E	Sodium Hydroxide 50%	G	L	-	-	-	-
Potassium Perchlorite	E	E	G	G	G	-	Sodium Hypochlorite	E	E	E	E	E	-
Potassium Permanganate 10%	G	G	E	E	U	U	Sodium Nitrate	E	E	E	E	E	-
Potassium Persulfate	E	E	E	E	E	-	Sodium Nitrite	E	E	E	E	E	-
Potassium Phosphate	-	-	-	-	E	E	Sodium Phosphate - Acid	G	G	E	E	E	-
Potassium Sulfate	E	E	E	E	E	-	Sodium Silicate	E	E	E	E	E	-
Potassium Sulfide	E	E	E	E	E	-	Sodium Sulfate	E	E	E	E	E	-
Potassium Thiosulfate	E	E	E	E	E	-	Sodium Sulfide	E	E	E	E	E	-
Power Steering Fluid	E	L	-	-	-	-	Sodium Sulfite	E	E	E	E	E	-
Propane	C	C	U	U	U	U	Sodium Thisulfate (Hypo)	E	E	E	E	E	-
Propargyl Alcohol	E	E	U	U	U	U	Soft Drinks	E	G	E	E	G	L
Propyl Alcohol	E	L	E	E	E	-	Soya Oil	E	G	-	-	-	-
Propylene Dichloride	U	U	U	U	U	U	Soybean Oil	G	L	-	-	-	-
Propylene Glycol	-	-	-	-	E	E	Stannic Chloride	E	E	E	E	E	-
Salicylic Acid	-	-	-	-	E	E	Stannous Chloride	E	G	E	E	E	-
Salt Water	E	E	E	E	E	E	Starch	-	-	-	-	E	E
Selenic Acid	E	G	G	L	G	L	Stearic Acid	L	L	E	E	E	-
Shortening	G	L	E	E	E	E	Stoddard Solvent	L	U	G	L	L	U
Silicic Acid	E	E	E	E	E	-	Styrene	U	U	-	-	-	-
Silicone Fluids	-	-	-	-	E	E	Sucrose	-	-	-	-	E	E
							Sulfur	G	G	E	E	E	-

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# Chemical Resistance Guide



Key: E=Excellent G=Good L=Limited U=Unsatisfactory C=Cautionary

Material Handled	PVC LLDPE EVA						Material Handled	PVC LLDPE EVA					
	Temperature (°C)							Temperature (°C)					
	20	65	20	65	20	65		20	65	20	65	20	65
Sulfuric Acid 0 - 10%	E	G	E	G	G	-	Water-Acid Mine Water	E	E	E	E	E	-
Sulfuric Acid 10 - 40%	E	G	G	G	G	G	Water - Distilled	E	E	E	E	E	-
Sulfuric Acid 50 - 60%	E	G	G	L	G	L	Water - Fresh	E	E	E	E	E	-
Sulfuric Acid 70%	E	G	L	U	L	U	Water - Salt	E	E	E	E	E	-
Sulfuric Acid 95%	U	U	U	U	U	U	White Liquor(Paper Ind)	E	E	-	-	-	-
Sulfuric Acid 95% to Fumin	L	L	U	U	U	U	Wines	G	L	E	E	-	-
Sulfurous Acid	E	E	G	L	L	U	Xylene or Xylol	U	U	G	L	U	U
Sulphur Dioxide - Liquid	L	U	U	U	U	U	Zinc Chloride	E	E	E	E	E	-
Sulphur Dioxide Gas - Dry	E	E	G	G	E	G	Zinc Chromate	E	E	E	E	E	-
Sulphur Dioxide Gas - Wet	L	U	G	L	E	L	Zinc Cyanide	E	E	E	E	E	-
Sulphur Trioxide	E	G	U	U	U	U	Zinc Nitrate	E	E	E	E	E	-
Sulphurous Acid 10%	-	-	-	-	E	E	Zinc Sulfate	E	E	E	E	E	-
Sulphurous Acid 30%	-	-	-	-	U	U							
Tallow	E	E	E	E	E	E							
Tannic Acid	E	E	E	E	E	E							
Tanning Extracts	-	-	-	-	E	E							
Tanning Liquors	E	E	G	L	L	-							
Tartaric Acid	E	E	E	E	E	-							
Tea (Brewed)	E	G	E	G	G	L							
Tetraethyl Lead	G	L	-	-	-	-							
Tetrahydrofurane	U	U	U	U	U	U							
Thionyl Chloride	U	U	U	U	U	U							
Tin Chloride	E	E	-	-	-	-							
Titanium Tertachloride	E	U	-	-	-	-							
Titanium Trichloride	-	-	-	-	U	U							
Toluol or Toluene	U	U	E	G	U	U							
Tomato Juice	E	E	G	L	L	U							
Transformer Oil					U	U							
Transmission Fluid	E	L											
Tributyl Phosphate	U	U	-	-	-	-							
Trichlorobenzene	U	U	-	-	U	U							
Trichloroethylene	U	U	G	L	U	U							
Tricresyl Phosphate	U	U	L	L	U	U							
Triethanolamine	L	U	G	L	L	-							
Triethylamine	G	L	-	-	-	-							
Trimethyl Propane	L	U	-	-	-	-							
Trisodium Phosphate	E	E	E	E	E	-							
Turpentine	L	U	G	L	U	-							
Urea	E	E	E	E	E	-							
Varnish	E	E	E	E	E	-							
Varsol			E	G									
Vegetable Oils	G	L			U	U							
Vinegar	E	E	E	G	E								
Vinyl Acetate	U	U	L	U	U	U							
Vinyl Chloride	U	U											

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