

# Chemical Compatibility Chart

These tables alphabetically list commonly used materials of various chemical composition. After each fluid listing you will find the basic hose tube and fitting materials rated according to their chemical resistance to each individual fluid. The chart is intended to be used as a guide only. Consult the Boston Weatherhead Division of Dana Corporation for further information.

**⚠ WARNING** – Selection of Hose: Selection of the proper hose for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to selection of the hose for your application can result in serious bodily injury or property damage from spraying fluids or flying projectiles. In order to avoid serious bodily injury or property damage resulting from selection of the wrong hose, you should carefully review the information in this catalog.

**⚠ WARNING** – Proper Selection of Hose Fittings: Selection of the proper fittings for the hose end application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the fittings for your application can result in serious bodily injury or property damage resulting from spraying fluids or flying projectiles. In order to avoid serious bodily injury or property damage resulting from selection of the wrong fitting, you should carefully review the information in this catalog.

**⚠ WARNING** – The following list of chemicals is offered as a guide to the chemical resistance properties of the tube material of the hoses shown. It should be used as a guide only, as the degree of resistance of any elastomer to a particular fluid depends upon such variables as temperature, concentration, pressure conditions, velocity of flow, duration of exposure, aeration, stability of the fluid, etc.

Therefore, when in doubt, it is advisable not to use the hose. If this is not practical, tests should be devised that simulate actual service conditions as nearly as possible. Boston Weatherhead offers additional technical assistance. Contact your Boston Weatherhead representative for assistance or call Technical Support at 1-800-776-3262.

FLUID	HOSE MATERIAL										HOSE END FITTINGS			FLUID	HOSE MATERIAL										HOSE END FITTINGS			
	PVC	Nitrile	Vinyl Nitrile	Neoprene	Teflon	Nylon/Nylon II	EPDM	Hypalon	Hyrel	Polyurethane	CPE	Brass	Steel		316 Stainless	PVC	Nitrile	Vinyl Nitrile	Neoprene	Teflon	Nylon/Nylon II	EPDM	Hypalon	Hyrel	Polyurethane	CPE	Brass	Steel
Acetaldehyde	X	X	X	X	G	G	G	F	X	X	-	X	X	G	Butyl Alcohol, Butanol	X	G	G	G	G	G	G	G	X	G	G	G	G
Acetic Acid (Concentrated)	X	X	X	X	G	X	G	X	X	X	G	X	X	G	Calcium Bisulfite	G	G	G	G	F	G	G	X	G	X	X	X	F
Acetic Acid (Diluted)	F	X	X	F	G	F	G	F	G	X	G	X	X	G	Calcium Chloride	G	G	G	G	G	G	G	G	G	G	X	X	F
Acetic Anhydride	X	G	G	X	G	X	G	F	X	X	G	X	F	F	Calcium Hydroxide	G	F	F	G	G	F	G	F	G	X	G	F	G
Acetone	X	X	X	X	G	G	G	F	F	X	G	G	G	G	Calcium Hypochlorite	G	F	F	F	G	F	F	F	X	G	F	X	F
Acrylonitrile	G	X	X	X	G	G	X	X	-	X	G	-	G	G	Cane Sugar Liquors	G	G	G	G	G	G	G	G	G	G	F	F	G
Air	G	G	G	G	G	G	G	G	G	G	G	G	G	G	Carbon Dioxide (Dry)	G	G	G	G	G	G	G	G	G	G	G	G	G
Alcohols (Methanol & Ethanol)	X	G	G	G	G	G	G	G	G	X	G	G	F	G	Carbon Dioxide (Wet)	-	G	G	G	G	G	G	-	G	-	F	G	G
Aluminum Chloride	G	G	G	G	X	G	G	G	G	G	X	X	F	G	Carbon Disulfide (Bisulfide)	X	X	X	G	X	X	X	X	X	G	X	G	G
Aluminum Fluoride	G	G	G	F	G	X	G	G	-	G	X	X	X	F	Carbon Monoxide (Hot)	X	F	F	G	X	F	G	F	G	X	X	F	G
Aluminum Hydroxide	G	G	G	G	G	G	G	-	G	G	X	F	G	Carbon Tetrachloride	X	X	X	X	G	G	X	X	F	X	X	G	G	G
Aluminum Sulfate	G	G	G	G	G	G	G	G	G	G	X	X	G	Carbonic Acid	X	G	G	G	G	X	G	X	F	X	X	X	F	G
Alums	G	G	G	G	F	G	G	X	G	G	X	X	F	Castor Oil	G	G	G	F	G	F	F	F	F	X	G	X	X	G
Ammonia, Anhydrous	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Cellosolve Acetate	X	X	X	X	G	F	F	F	X	X	X	X	G
Ammonia Solution (10%)	G	G	G	F	G	G	G	X	X	X	X	G	G	Chlorinated Solvents	X	X	X	X	G	F	X	X	X	X	X	G	G	F
Ammonium Chloride	G	G	G	G	X	G	G	G	G	G	X	G	F	Chloroacetic Acid	X	X	X	X	G	X	F	X	X	X	X	X	F	G
Ammonium Hydroxide	X	F	F	F	G	G	G	X	X	G	X	F	G	Chlorobenzene	X	X	X	X	G	G	X	X	X	X	X	F	F	G
Ammonium Nitrate	G	G	G	G	G	G	G	G	X	G	-	-	G	Chloroform	X	X	X	X	G	G	X	X	X	X	X	G	G	G
Ammonium Phosphate	F	G	G	G	G	G	G	G	F	G	X	X	G	Chlorosulfonic Acid	X	X	X	X	G	X	X	X	X	X	X	F	X	G
Ammonium Sulfate	G	G	G	G	G	G	G	G	G	G	X	X	F	Chromic Acid (Under 25%)	F	X	X	X	G	X	G	X	X	X	X	X	X	G
Amyl Acetate	X	X	X	X	G	F	X	X	X	X	G	F	G	Chromic Acid (Over 25%)	X	X	X	X	G	X	G	G	X	X	X	X	X	F
Amyl Alcohol	X	G	G	F	G	G	G	G	X	G	G	F	F	Citric Acid	G	F	F	G	G	X	G	G	G	X	X	X	X	G
Aniline	X	X	X	X	G	X	X	X	X	X	X	G	G	Coke Oven Gas	X	X	X	X	F	X	X	X	-	X	X	F	G	G
Aniline Dyes	X	F	F	F	G	X	G	F	X	X	X	X	F	Copper Chloride	G	G	G	F	G	G	G	G	G	G	X	X	X	G
Animal Oils and Fats	G	G	G	X	G	F	F	G	X	F	G	G	G	Copper Sulfate	G	G	G	G	G	G	G	G	G	G	X	X	X	G
Anti-Freeze (Glycol Base)	G	G	G	G	F	G	G	G	X	G	G	G	G	Corn Syrup (non-food)	G	G	G	F	G	G	F	G	G	-	-	G	G	G
Aqua Regia	X	X	X	X	G	X	X	X	X	X	-	X	X	Cottonseed Oil	F	G	G	X	G	F	F	G	F	G	G	G	G	G
Asphalt	X	G	G	X	G	G	X	-	X	F	G	G	G	Creosote	X	F	F	X	G	X	X	F	F	X	F	F	-	G
Barium Chloride	G	G	G	G	X	G	G	G	G	G	X	F	G	Cresol	X	X	X	X	G	X	X	X	X	X	G	-	G	G
Barium Hydroxide	G	G	G	G	G	G	G	G	X	G	X	G	G	Dextrose (food grade)	X	X	X	X	G	X	X	X	X	X	X	G	G	G
Barium Sulfide	G	G	G	G	X	G	G	X	G	X	X	X	G	Diaminoethane	X	X	X	X	G	X	F	X	-	X	-	G	G	G
Beet Sugar Liquors	G	G	G	G	G	X	G	G	X	G	X	G	G	Dibromoethane	X	X	X	X	G	G	X	X	-	-	-	-	-	-
Benzaldehyde	X	X	X	X	G	G	F	X	X	X	X	F	F	Dichlorobenzene	X	X	X	X	G	G	X	X	X	X	-	-	G	G
Benzene, Benzol	X	X	X	X	G	G	X	X	X	X	F	G	G	Diesel Fuel	X	G	G	X	G	G	X	F	F	F	G	G	G	G
Benzoic Acid	X	X	X	G	X	X	X	X	X	X	F	F	X	Diethanolamine	-	F	F	X	G	X	G	X	X	X	X	G	X	G
Black Sulfate Liquor	X	F	F	G	F	G	F	G	X	F	X	G	F	Diethylenetriamine	-	F	F	X	G	X	G	X	X	X	G	-	-	-
Borax	G	F	F	G	G	G	G	G	G	G	G	G	G	Dowtherm A	X	X	X	X	G	X	X	X	X	X	X	F	G	G
Boric Acid	G	G	G	G	G	G	G	G	G	X	X	X	G	Enamel (Solvent Base)	X	F	F	X	G	X	X	X	X	X	X	G	-	G
Brake Fluid (Glycol Ether Base)	X	X	X	F	G	G	G	-	X	G	X	G	G	Ethanolamine	X	F	F	X	G	X	X	X	-	X	G	X	G	G
Brine	G	G	G	G	G	G	G	G	X	G	-	X	F	Ethers (Ethyl Ether)	X	X	X	X	G	F	X	X	X	F	G	G	G	G
Butane														Ethyl Alcohol (To 150°)	F	G	G	G	G	G	G	G	G	G	G	F	G	G
Butyl Acetate	X	X	X	X	G	G	F	X	F	X	F	G	G	Ethyl Acetate	X	X	X	X	G	G	G	X	F	X	F	G	G	G

**CODES:** G – Good resistance. F – Fair resistance. X – Incompatible. - No data available.

**NOTE:** All data given herein is believed to be accurate and reliable, but presented without guarantee, warranty, or responsibility of any kind, express or implied, on our part. Chemical resistance will vary with the wide diversity of possible mixtures and service conditions. It is therefore not possible to give any guarantee whatsoever in individual cases.

▲ In all applications, the cover must be pinpricked.

# Chemical Compatibility Chart

## Application

FLUID	HOSE MATERIAL										HOSE END FITTINGS			FLUID	HOSE MATERIAL										HOSE END FITTINGS									
	PVC	Nitrile	Vinyl Nitrile	Neoprene	Teflon	Nylon/Nylon II	EPDM	Hypalon	Hyrel	Polyurethane	CPE	Brass	Steel		316 Stainless	PVC	Nitrile	Vinyl Nitrile	Neoprene	Teflon	Nylon/Nylon II	EPDM	Hypalon	Hyrel	Polyurethane	CPE	Brass	Steel	316 Stainless					
Ethyl Acrylate	X	X	X	X	G	G	F	X	X	X	F	-	G	G	Lye	G	F	F	G	G	X	G	G	-	-	G	F	X	F	G				
Ethylamine	X	X	X	X	G	X	F	X	-	X	-	G	-	G	G	Magnesium Chloride	G	G	G	G	X	G	G	F	F	G	G	F	F	G				
Ethyl Cellulose	-	F	F	F	G	G	F	F	G	F	G	F	G	F	G	Magnesium Hydroxide	G	F	F	G	G	X	G	F	F	X	G	G	F	G				
Ethyl Chloride	X	X	X	X	G	G	X	X	X	F	X	F	F	G	G	Magnesium Sulfate	G	G	G	G	G	G	G	G	G	X	G	F	G	G				
Ethylene Dichloride	X	X	X	X	G	G	X	X	X	X	X	X	X	X	X	Mercuric Chloride	F	F	F	G	X	G	G	-	-	G	X	X	X	X				
Ethylene Glycol	G	G	G	G	G	F	G	G	G	F	G	F	G	F	G	Mercury	F	F	G	G	G	G	G	G	G	G	X	X	G	G				
Ethylene Oxide	X	X	X	X	G	G	X	X	G	X	X	X	F	F	F	Methanol	X	G	G	G	G	G	G	G	F	G	F	G	G	G				
Ethyl Methacrylate	X	X	X	X	G	F	X	X	X	F	-	G	G	G	G	Methyl Acrylate	X	X	X	X	G	X	F	X	X	F	G	G	G	G				
Fatty Acids	G	F	F	X	G	F	X	G	F	X	F	F	F	F	G	Methyl Chloride	X	X	X	X	G	F	X	X	X	F	G	G	G	G				
Ferric Chloride	G	G	G	G	G	G	G	G	G	F	G	X	X	X	X	Methylene Chloride	X	X	X	X	G	G	X	X	X	X	F	G	G	G				
Ferric Sulfate	G	G	G	G	G	G	G	G	G	G	G	X	X	F	G	Methyl t-Butyl Ether (MTBE)	X	F	F	X	G	G	X	X	-	-	-	-	-	G	G			
Fertilizer Solution (Water Base)	G	F	F	F	G	F	G	G	-	-	-	-	-	G	Methyl Ethyl Ketone	X	X	X	X	G	F	X	G	X	X	X	X	G	G	G				
Formaldehyde	X	F	F	F	G	G	G	X	F	X	G	F	X	G	Methyl Isobutyl Ketone	X	X	X	X	G	F	X	G	X	X	X	X	G	G	G				
Formic Acid	X	F	F	F	G	X	G	X	X	X	G	F	X	G	Methyl Isopropyl Ketone	X	X	X	X	G	F	X	X	X	X	X	G	G	G	G				
Freon 12 <sup>Δ</sup>	X	F	F	F	G	G	X	X	X	X	F	G	G	G	Methyl Methacrylate	X	X	X	X	G	F	X	X	X	X	-	G	G	G					
Fuel Oil	F	G	G	F	G	G	X	G	F	G	F	G	F	G	G	Mineral Oil	F	G	G	F	G	G	X	F	G	G	G	G	G	G	G			
Furfural	X	X	X	X	G	F	F	X	X	F	F	F	G	G	G	Mineral Spirits	F	G	G	F	G	G	X	X	G	G	G	G	G	G	G			
Gasoline (Refined)	X	F	F	X	G	G	X	X	G	F	G	G	G	G	G	Naphtha	X	F	F	F	G	G	X	X	G	F	F	G	F	G	G			
Gasoline (Unleaded)	X	G	G	X	G	X	F	X	X	X	G	G	G	G	G	Napthalene	X	X	X	X	G	X	X	F	F	G	F	G	G	G	G			
Gasoline (10% Ethanol)	X	G	G	X	G	X	X	X	X	X	G	G	G	G	G	Nickel Acetate	G	X	X	G	G	G	G	-	X	-	-	-	-	-	-			
Gasoline (10% Methanol)	X	F	F	X	G	G	X	X	X	X	X	G	G	G	G	Nickel Chloride	G	G	G	F	G	G	G	X	X	G	X	X	F	G	G			
Glycerine, Glycerol	G	G	G	G	G	G	G	G	G	X	G	G	G	G	G	Nitric Acid (Under 35%)	G	X	X	X	G	X	F	F	X	X	X	X	X	G	G			
Greases	G	G	G	F	G	X	F	G	G	G	G	G	G	G	G	Nitric Acid (35% to 60%)	F	X	X	X	G	X	X	X	X	X	X	X	X	X	G	G		
Green Sulfate Liquor	G	F	F	F	G	X	G	X	G	X	X	X	X	X	X	Nitric Acid (Over 60%)	X	X	X	X	G	X	X	X	X	X	X	X	X	X	G	G		
Heptane	X	G	G	F	G	G	X	F	G	F	G	G	G	G	G	Nitrobenzene	X	X	X	X	G	G	X	X	X	X	X	F	G	G	G			
Hexane	X	G	G	F	G	G	X	F	G	F	G	G	G	G	G	Nitrogen Gas <sup>▲</sup>	G	X	X	G	G	G	X	-	G	G	G	-	-	-	-	-		
Houghto Safe 273 to 640	F	G	G	G	G	G	-	-	X	G	G	G	G	G	G	Nitrous Oxide	X	X	X	X	G	X	X	X	X	X	X	X	G	G	G	G		
Houghto Safe 5046, 5047F	G	G	G	G	G	X	X	G	X	G	G	G	G	G	G	Oleic Acid	F	F	F	X	G	F	F	G	F	G	F	F	F	G	G			
Houghto Safe 1000 Series	X	X	X	X	G	G	X	-	X	-	G	G	G	G	G	Oleum (Fuming Sulfuric Acid)	X	X	X	X	G	X	X	X	X	X	X	X	F	G	G			
Hydraulic Oils																Oxalic Acid	G	X	X	X	G	X	X	X	-	X	X	X	F	G	G			
Straight Petroleum Base	G	G	G	F	G	G	X	F	G	G	G	G	G	G	G	Paint (Solvent Base)	X	F	F	X	G	G	X	-	-	-	-	-	-	-	-	-		
Water Petroleum Emulsion	-	G	G	F	G	G	X	F	G	X	G	G	G	G	G	Palmitic Acid	F	F	F	F	G	F	X	G	X	G	X	F	F	F	F	F		
Water Glycol	-	G	G	G	G	G	-	X	X	G	G	G	G	G	G	Pentane	X	G	G	F	G	X	F	G	G	G	G	G	G	G	G	G		
Straight Phosphate Ester	X	X	X	X	G	G	X	-	X	G	G	G	G	G	G	Perchloroethylene	X	X	X	X	G	X	X	X	X	X	X	F	G	G	G	G		
Phos. Ester/Petroleum Blend	X	X	X	X	G	G	X	X	-	X	-	G	G	G	G	Petroleum Ether	X	G	F	X	G	G	X	X	G	G	G	G	G	G	G	G		
Polyol Ester	-	G	G	X	G	G	X	-	X	G	G	G	G	G	G	Petroleum Oils	G	G	G	F	G	G	X	F	G	G	G	G	G	G	G	G		
Hydrobromic Acid	G	X	X	X	G	X	G	X	X	X	X	X	X	X	X	Phenol	X	X	X	X	G	X	X	X	X	X	X	X	X	X	F	F		
Hydrochloric Acid	G	X	X	X	X	G	X	X	X	X	X	X	X	X	X	Phosphoric Acid (to 85%)	G	X	X	F	G	X	G	X	X	X	X	X	X	X	X	F	F	
Hydrocyanic Acid	G	F	F	X	G	X	F	G	X	X	X	F	G	G	G	Picric Acid (Molten)	X	X	X	X	G	X	X	F	X	X	X	X	X	X	F	F	F	
Hydrofluoric Acid (Under 50%)	F	X	X	X	G	X	F	G	X	X	X	X	X	X	X	Picric Acid (Solution)	X	F	F	X	G	X	F	G	X	F	X	X	X	X	F	F	F	
Hydrofluoric Acid (Over 50%)	X	X	X	X	G	X	X	G	X	X	X	X	X	X	X	Potassium Chloride	G	G	G	G	G	G	G	G	G	G	G	G	F	X	G	G	G	
Hydrofluosilicic Acid	G	F	F	X	G	X	G	G	X	G	X	X	X	X	X	Potassium Cyanide	G	G	G	G	G	G	G	G	G	G	G	G	X	G	G	G	G	
Hydrogen	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Potassium Dichromate	G	X	X	X	G	F	G	X	G	G	G	G	X	G	G	G	G	
Hydrogen Peroxide	-	X	X	X	X	F	X	X	-	G	X	X	X	X	X	Potassium Hydroxide	G	F	F	F	G	G	G	G	F	X	G	F	X	G	G	G	G	
Hydrogen Sulfide	-	X	X	X	X	X	F	G	-	X	F	F	F	F	F	Potassium Sulfate	G	G	G	G	G	G	G	G	X	G	G	F	F	F	F	F	F	
Hydrolube	-	G	G	F	G	G	-	-	G	X	-	G	G	G	G	Propane Liquid																		
Isopropyl Alcohol	G	G	G	G	G	G	G	X	G	G	G	G	G	G	G	Propylene Glycol	F	G	F	G	G	G	G	G	-	-	G	F	G	G	G	G		
Isopropylamine	X	X	X	F	G	X	F	X	-	-	G	-	G	-	G	Pyridine	X	X	X	X	G	X	F	X	X	X	X	X	X	F	G	G	G	
Iso-Octane	X	G	G	F	G	X	F	G	X	G	G	G	G	G	G	Sea Water	G	G	G	G	G	F	G	X	G	X	G	G	F	G	G	G	G	
Jet Fuel (Transfer Only)	X	G	G	F	G	G	X	X	-	G	-	G	F	G	G	Skydrol (Transfer Only)	X	X	X	X	G	G	G	X	-	X	G	G	G	G	G	G	G	
Kerosene	X	G	G	F	G	X	F	F	G	G	G	G	G	G	G	Soap Solution	G	G	G	F	G	G	G	G	G	G	G	G	G	G	G	G	G	
Lacquer	X	X	X	X	G	X	X	X	X	F	X	F	G	X	G	Sodium Bisulfate	G	G	G	G	G	G	G	G	G	G	G	F	F	F	F	F	F	
Lacquer Solvents	G	X	X	X	G	X	X	F	X	F	G	X	G	G	G	Sodium Carbonate	G	G	G	G	G	G	G	G	G	G	G	X	G	G	G	G	G	
Lactic Acid	G	X	X	G	X	F	G	X	X	X	F	F	G	G	G	Sodium Chloride	G	G	G	G	G	G	G	G	G	G	G	X	F	G	G	G	G	
Lime Sulfur	G	X	X	G	F	G	F	-	-	-	X	-	G	-	G	Sodium Cyanide	G	G	G	G	G	G	G	G	G	G	G	X	F	F	F	F	F	
Lindol	-	X	X	X	G	G	X	-	X	-	F	G	G	G	G	Sodium Hydroxide	G	F	F	G	X	G	G	F	X	X	F	X	X	X	X	G	G	
Linseed Oil	G	G	G	X	G	X	F	F	F	G	F	G	G	G	G	Sodium Hypochlorite	G	X	X	X	G	X	G	G	G	X	F	X	X	X	F	F	F	F
Lubricating Oils	G	G	G	F	G	X	F	G	F	G	G	G	G	G	G	Sodium Nitrate	G	G	G	F	G	G	G	G	G	F	G	F	G	G	G	G	G	

**CODES:** G – Good resistance. F – Fair resistance. X – Incompatible. – No data available.

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<sup>Δ</sup> Use approved Freon Hose.

<sup>▲</sup> In all applications, the cover must be pinpricked.

\*This chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.




FLUID	HOSE MATERIAL											HOSE END FITTINGS				FLUID	HOSE MATERIAL											HOSE END FITTINGS			
	PVC	Nitrile	Vinyl Nitrile	Neoprene	Teflon	Nylon/Nylon II	EPDM	Hypalon	Hytre	Polyurethane	CPE	Brass	Steel	316 Stainless	PVC		Nitrile	Vinyl Nitrile	Neoprene	Teflon	Nylon/Nylon II	EPDM	Hypalon	Hytre	Polyurethane	CPE	Brass	Steel	316 Stainless		
Sodium Perborate	G	G	G	X	G	G	G	X	G	X	X	F	F	G	Tar	X	F	F	F	G	X	X	X	G	F	G	F	F	G		
Sodium Peroxide	X	F	F	F	G	X	G	F	G	X	X	X	F	G	Tartaric Acid	G	G	G	F	G	X	G	G	G	G	F	X	F	G		
Sodium Phosphates	G	G	G	F	G	G	G	F	G	X	F	F	F	F	Tetrachloroethane	X	X	X	X	G	X	X	X	X	X	-	-	-	-	G	
Sodium Silicate	G	G	G	G	G	G	G	G	G	G	F	F	F	G	Tetrahydrofuran (THF)	X	X	X	X	G	G	X	X	-	X	X	-	-	-	G	
Sodium Sulfate	G	G	G	G	G	G	G	G	G	G	F	F	F	G	Toluene	X	X	X	X	G	G	X	X	X	X	X	G	G	G	G	
Sodium Sulfide	G	G	G	G	G	G	G	G	G	G	X	X	G	Transmission Oil (Petrol. Based)	G	G	G	F	G	G	X	F	G	G	G	G	G	G	G		
Sodium Thiosulfate	G	G	G	G	G	G	G	-	G	G	X	X	G	Trichloroethane	X	X	X	X	G	X	X	X	X	X	X	X	G	G	G		
Soybean Oil	F	G	G	F	G	G	F	G	G	G	G	G	G	Trichloroethylene	X	X	X	X	G	G	X	X	X	X	X	X	G	G	G		
Stannic Chloride	G	G	G	X	G	X	G	G	G	X	X	X	X	Tung Oil	-	G	G	F	G	G	X	F	G	X	X	F	G	G	G		
Steam 450°	X	X	X	X	G	X	G	X	X	X	F	F	G	Turpentine	X	F	F	X	G	X	X	F	G	X	F	F	G	G	G		
Stearic Acid	F	F	F	F	G	F	F	G	G	X	X	G	Urea (Water Solution)	G	X	X	G	G	G	G	G	G	G	G	-	-	-	-	G		
Stoddard Solvent	X	G	G	F	G	G	X	X	G	G	G	G	G	Varnish	X	X	X	X	G	G	X	X	-	X	F	G	G	G	G		
Sulfur	F	X	X	X	X	X	F	-	-	G	X	X	G	Vegetable Oil (Non-food)	F	G	G	X	G	G	X	G	-	G	-	-	-	-	G		
Sulfur Chloride	X	X	X	X	G	F	X	F	X	X	X	X	X	Vinyl Acetate	X	X	X	X	G	F	X	X	X	X	G	F	F	G	G		
Sulfur Dioxide	X	X	X	X	G	X	G	X	X	-	X	X	-	Water	G	G	G	G	G	G	G	G	G	G	G	F	F	F	G		
Sulfuric Acid (Under 50%)	G	X	X	X	G	X	G	X	X	X	X	X	X	Water-Glycol mixture	-	G	G	G	G	G	G	X	X	G	F	G	G	G	G		
Sulfuric Acid (51% to 70%)	G	X	X	X	G	X	F	G	X	X	X	X	X	Water-Petroleum mixture	-	G	G	F	G	G	X	F	G	X	G	G	G	G	G		
Sulfuric Acid (71% to 95%)	X	X	X	X	G	X	F	X	X	X	X	X	X	Xylene	X	X	X	X	G	G	X	X	F	X	X	G	F	G	G		
Sulfuric Acid (96% to 98%)	X	X	X	X	G	X	X	X	X	X	X	X	X	Zinc Chloride	G	G	G	G	G	X	G	G	X	G	X	X	X	X	G		
Styrene	X	X	X	X	G	G	X	X	X	X	G	G	G	Zinc Sulfate	G	G	G	G	G	G	G	-	G	X	X	X	X	X	G		
Tannic Acid	G	F	F	F	G	X	G	G	G	G	F	X	G																		

**CODES:** G – Good resistance. F – Fair resistance. X – Incompatible. – No data available.

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**NOTE:** All data given herein is believed to be accurate and reliable, but presented without guarantee, warranty, or responsibility of any kind, express or implied, on our part. Chemical resistance will vary with the wide diversity of possible mixtures and service conditions. It is therefore not possible to give any guarantee whatsoever in individual cases.

For compatibility of fluids not listed with this chart, contact  Technical Support at 1-800-776-3262.