

# BASIC CHEMICAL RESISTANCE TABLE

## COUPLERS, BALL VALVES, STRAINERS, ADAPTERS AND FITTINGS

FLUID	NY-GLASS	POLY-GLASS	PVC	PVDF	FLUID	NY-GLASS	POLY-GLASS	PVC	PVDF
Acetic Acid		S			Chlorine-Dry		S	U	S
Acetic Anhydride		S			Chlorobromomethane				
Acetone	S	S	U	U	Chloroform-Dry	S	S		S
Acetylene-Dry			S		Chlorex	S			
Air	S	S			Chromic Acid, 50%	U	S	U	
Agricultural Lime	S	S			Citric Acid	S	S	S	S
Alcohol-Amyl	S	S	S		Cobalized Super Compound		S		
Alcohol-Butyl	S	S			Copper Chloride-Dry		S	S	S
Alcohol-Ethyl	S	S			Copper Sulfate		S	S	S
Alcohol-Isopropyl	S	S			Copperized Super Compound		S		
Alcohol-Methyl	S	S			Corn Oil	S	S		
Aluminum Chloride	U	S	S	S	Cottonseed Oil	S	S	S	
Aluminum Fluoride, 20%	U	S	S	S	Creosote				
Aluminum Nitrate	U	S	S	S	Cresylic Acid			S	
Aluminum Potassium Sulfate	U	S		S	Cyclohexane	S		U	S
Aluminum Sulfate	U	S							
Ammonia, Anhydrous					DDT				U
Ammonia, Solutions	S	S		U	Detergents	S	S	S	
Ammonium Chloride-Dry		S	S		Developer Solution		S		
Ammonium Hydroxide	P	S	S		Dextrose	S	S	S	
Ammonium Nitrate		S	S	S					
Ammonium Phosphate		S	S		Diesel Fuels	S	S	S	S
Mono-basic		S			Diethyl Sebacate			S	
Di-Basic or Tri-Basic		S			Disodium Phosphate		S	S	
Ammonium Sulfate		S	S	S	Dowtherm		S		
Aniline		S	U						
Arsenic Acid		S	S		Ethanolamine		S		
Asphalt					Ether	S		U	S
					Ethyl Acetate	S		U	
Barium Chloride	U	S	S	S	Ethyl Chloride-Dry		U	U	
Barium Hydroxide		S	S	U	Ethylene		S		
Barium Sulfide		S	S		Ethylene Dichloride-Dry		S	U	
Basic Stag		S			Ethylene Glycol	S	S	S	
Beer	S	S	S		Fatty Acids	S	S	S	
Benzene/Benzol	S				Ferric Chloride	P	S	S	
Benzine	S				Ferric Hydroxide		S	S	
Black Liquor (Paper Ind)		S	S		Ferric Nitrate		S	S	
Bleach (12.5% Chlorine)	U	S	S		Ferric Sulfate	P	S	S	
Borax		S	S		Fluoboric Acid		S	S	
Boric Acid	P	S	S	S	Formaldehyde, 405		S	S	
Brine	S	S	S		Formalin		S		
Bromic Acid		S	S		Formic Acid	U	S	S	S
Burnt Lime	S	S			Freon	S	S		
Butane	S	S	S	S	Fruit Juice: Grapefruit	S	S	S	
Butadiene			S	S	Lemon	S	S		
					Pineapple	S	S		
Butyl Acetate-Dry			S		Furfural		S	U	
Butyl Stearate			S						
Butylene			S		Gas-Coke Oven	S	S	U	
					Gasoline-Refined	S	U	U	S
Cadmium Cyanide		S	S		Gasoline-Sour	S	U	U	
Calcium Acetate		S			Gelatin	S	S		
Calcium Bisulfite		S	S		Glucose	S	S	S	S
Calcium Chloride	U	S	S	S	Glue	S	S		
Calcium Hydroxide		S	S		Glycerine	S	S	S	S
Calcium Hypochlorite		S	S		Glycol	S	S	S	
Calcium Nitrate, 40%		S	S	S	Green Liquor (Paper Ind)		S	S	
Carbolic Acid (Phenol)	U								
Carbon Dioxide-Dry	S	S	S	S	Hexane	S		S	S
Carbon Disulfide			U		Hydrobromic Acid		S		
Carbon Tetrachloride	S		U	S	Hydrobromic Acid, 40%		S		
Carbonated Beverages	S	S			Hydrobromic Acid, 100%		S		
Carbonic Acid	S	S	S		Hydrochloric Acid	U	S	S	
Castor Oil	S	S	S		Hydrogen Chloride		S		
Caustic Potash	S	S	S		Gas-dry		S		S
Caustic Soda	S	S							
Cellosolves									

FLUID	NY-GLASS	POLY-GLASS	PVC	PVDF
Hydrogen Gas	S	S		S
Hydrogen Peroxide	U	S		S
Hydrogen Sulfide	U	S		
Hypochlorous Acid, 20%	U	S		
Iodide, Peroxide		S		
Isobutyl Acetate		S		
Isopropyl Acid	S	S		
Jet Fuel	S	U		
Kerosene	S	S		
Kraft Liquor (Paper Ind)		S	S	
Lacquers	S	U		
Lactic Acid, 20%	S	S	S	S
Lactic Acid, 70%		S		S
Lard	S	S	S	S
Lead: Chloride, Sulphate		S	S	
Lime Slurry	S	S		
Lime Sulphur		S		
Linoleic Acid		S	S	
Linseed Oil	S	S	S	S
L.P.G.	S			
Magnesium Carbonate	S	S	S	S
Magnesium Chloride	P	S	S	S
Magnesium Hydroxide	S	S	S	S
Magnesium Nitrate	P	S	S	S
Magnesium Sulfate	P	S	S	S
Meat and Bone Meal	S	S		
Mercuric Chloride		S	S	S
Mercury		S	S	S
Methane	S	S		
Methanol	S	S		
Methyl Amyl Acetate		S		
Methylene Chloride	S	U	U	
Methyl Benzene	S	U		
Methyl Ethyl Ketone	S	S		
Milk	S	S	S	S
Mineral Oil	S	S	S	S
Molasses	S	S	S	
Muriate of Potash	S	S		
Muriatic Acid	U	S	S	
Mustard	S	S		S
Naptha	S		S	S
Nathalene			U	
Napthenic Acid		U		
Natural Gas	S	S	S	
Nickel Chloride		S	S	S
Nickel Sulfate		S		S
Nitric Acid	U	S		S
Nitrobenzene	S	S	U	
Nitro Lime		S		
Octane	S			
Oil-Core	S			
Oil-Fuel	S	S		
Oil-Hydraulic	S	S		
Oil-Petroleum	S			
Crude	S	S	S	
Refined	S	S		
Oil-Transmission	S	S		

FLUID	NY-GLASS	POLY-GLASS	PVC	PVDF
Oil-Vegetable	S	U		
Oleic Acid	S	U	S	
Oleum	U	S	U	
Oxalic Acid	S	S	S	S
Oxygen	S	U	S	S
Palmitic Acid	S	S		
Paraffin	S	S	S	
Pentachlorophenol-Dry				
Perchlorethylene	S	U		
Phosphoric Acid	U	S		S
Photographic Solutions	S	S	S	
Phthalic Anhydride		S		
Picric Acid-Molten	U	S	U	
Aqueous Solution		S		
Plating Solutions, Chrome		S		
Potassium Acetate		S		
Potassium Chloride	S	S	S	S
Potassium Cyanide	S	S	S	
Potassium Dichromate	U	S	S	S
Potassium Fluoride	S	S	S	
Potassium Hydroxide, 30%	S	S	S	
Potassium Nitrate	S	S	S	S
Potassium Sulfate	S	S		S
Propane	S	S	S	
Propionic Acid	S	S		
Propylene Glycol	S	S		
Rosin	S	S		
Salt Water	S	S	S	S
Shellac	S	S		
Silicone Fluid	S	S		
Silicone Oil	S	S		
Silver Nitrate	S	S	S	S
Soap Solutions	S	S	S	
Soda Ash	S	S		
Sodium Bicarbonate	S	S	S	
Sodium Bisulfate		S	S	
Sodium Borate	S	S		
Perborate	S	S		
Sodium Carbonate	S	S	S	S
Sodium Chloride	S	S	S	S
Sodium Cyanide, 10%	S	S	S	S
Sodium Dichromate, 10%		S		
Sodium Hydroxide, 40%	S	S	S	
Sodium Hypochlorite, 20%	U	S	S	
Sodium Metaphosphate	S	S		
Sodium Nitrate	S	S	S	S
Sodium Peroxide		S	S	
Sodium Phosphate-				
Mono-Basic		S		
Di-Basic		S		
Tri-Basic		S		
Sodium Silicate		S		S
Sodium Sulfate	S	S	S	S
Sodium Sulfide		S	S	
Sodium Thiosulfate		S	S	S
Soybean Oil	S	S		
Stannic Chloride	U	S	S	
Stannous Chloride, 15%	U	S		
Steam				
Stearic Acid		S	S	
Stoddard Solvent		S	U	

# BASIC CHEMICAL RESISTANCE TABLE CONT.

## COUPLERS, BALL VALVES, STRAINERS, ADAPTERS AND FITTINGS

FLUID	NY-GLASS	POLY-GLASS	PVC	PVDF
Styrene		U		
Sugar Liquors-Cane	S	S		
Beet	S	S		
Sulfate Liquors		S		
Sulphite Liquors		S	S	
Sulfuric Acid	U	S		S
Sulfurous Acid	U	S	S	
Superphosphate		S		
Tannic Acid, 10%		S	S	S
Tar-Wood		S		
Tartaric Acid	S	S	S	S
Titanium Tetrachloride-Dry		S	U	
Toluene/Toluol	S	U	S	
Tetrachlorethylene	S	U		
Trichloroethylene-Dry	S	U		
Triethanolamine		S	S	S
Trisodium Phosphate	S	S	S	
Urea		S	S	S
Urine	S	S	S	
Varnish	S			
Vinegar	S	S	S	
Water-Acid Mine	S	S	S	
Deionized	S	S		
Demineralized	S	S		
Distilled	S	S		
Fresh	S	S		
Salt	S	S		S
White Liquor (Paper Ind)		S	S	
Wine	S	S	S	
Xylene/Xylol	S		U	
Zinc Chloride		S	S	S
Zinc Nitrate, Sulphate	S	S	S	S

### LEGEND:

S - Satisfactory

P - Poor

U - Unsatisfactory

Blank - Not tested

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