

Chemical/Environmental Resistance Table

Acid Liners

S - Satisfactory U - Unsatisfactory M - Marginal N - Not known

Exposure Ratings

Reagent	70 deg. F (21 deg. C)	140 deg. F (60 deg. C)	Reagent	70 deg. F (21deg. C)	140 deg. F (60deg. C)	Reagent	70 deg. F (21 deg. C)	140 deg. F (60 deg. C)
Acetic Acid 1-10%	S	S	Calcium Chloride Sat'd	S	S	Ethyl Acetate 100%	M	U
Acetic Acid 10-60%	S	M	Calcium Hydroxide	S	S	Ethyl Alcohol 100%	S	S
Acetic Acid 80-100%	S	M	Calcium Hypochlorite RRGH	S	S	Ethyl Alcohol 35%	S	S
Acetone	M	U	Calcium Nitrate 50%	S	S	Ethyl butyrate	M	U
Acrylic Emulsions	S	S	Calcium Sulfate	S	S	Ethyl Chloride	M	U
Aluminum Chloride-Dilute	S	S	Camphor Oil	N	U	Ethyl Ether	U	U
Aluminum Chloride Conc.	S	S	Carbon Dioxide 100% Dry	S	S	Ethylene Chloride	U	U
Aluminum Fluoride Conc.	S	S	Carbon Dioxide 100%Wet	S	S	Ethylene Chlorohydrin	U	U
Aluminum Sulfate Conc.	S	S	Carbon Dioxide Cold Sat'd	S	S	Ethylene Dichloride	M	U
Alums (All Types) Conc.	S	S	Carbon Disulfide	N	U	Ethylene Glycol	S	S
Ammonia 100% Dry Gas	S	S	Carbon Monoxide	S	S	Ferric Chloride Sat'd	S	S
Ammonium Carbonate	S	S	Carbon Tetrachloride	M	U	Ferric Nitrate Sat'd	S	S
Ammonium Chloride Sat'd	S	S	Carbonic Acid	S	S	Ferrous Chloride Sat'd	S	S
Ammonium Fluoride 20%	S	S	Castor Oil Conc.	S	S	Ferrous Sulfate	S	S
Ammonium Hydroxide 0.8S S.G.	S	S	Chlorine Dry Gas 100%	S	M	Fish Solubles	S	S
Ammonium Metaphosphate Sat'd	S	S	Chlorine Moist Gas	M	U	Fluoboric Acid	S	S
Ammonium Nitrate Sat'd	S	S	Chlorine Liquid	M	U	Fluorine	S	U
Ammonium Persulfate Sat'd	S	S	Chlorobenzene	M	U	Fluosilicic Acid 32%	S	S
Ammonium Sulfate Sat'd	S	S	Chloroform	M	U	Fluosilicic Acid Conc.	S	S
Ammonium Sulfide Sat'd	S	S	Chlorosulfonic Acid 100%	M	U	Formaldehyde 40%	S	N
Ammonium Thiocyanate Sat'd	S	S	Chrome Alum Sat'd	S	S	Formic Acid 0-20%	S	S
Amyl Acetate	M	U	Chromic Acid 20%	S	S	Formic Acid 20-50%	S	S
Amyl Alcohol 100%	S	S	Chromic Acid Up to 50%	S	S	Formic Acid 100%	S	S
Amyl Chloride 100%	N	U	Chromic Acid and Sulfuric Acid	S	M	Fructose Sat'd	S	S
Aniline 100%	S	N	Cider	S	S	Fruit Pulp	S	S
Antimony Chloride	S	S	Citric Acid Sat'd	S	S	Fuel Oil	S	U
Aqua Regia	U	U	Coconut Oil Alcohols	S	S	Furfural 100%	M	U
Barium Carbonate Sat'd	S	S	Cola Concentrates	S	S	Furfuryl Alcohol	M	U
Barium Chloride	S	S	Copper Chloride Sat'd	S	S	Gallic Acid Sat'd	S	S
Barium Hydroxide	S	S	Copper Cyanide Sat'd	S	S	Gas Liquids	S	M
Barium Sulfate Sat'd	S	S	Copper Fluoride 2%	S	S	Gasoline	M	U
Barium Sulfide Sat'd	S	S	Copper Nitrate Sat'd	S	S	Gin	S	U
Beer	S	S	Copper Sulfate Dilute	S	S	Glucose	S	S
Benzene	M	U	Copper Sulfate Sat'd	S	S	Glycerine	S	S
Benzene Suffonic Acid	S	S	Cottonseed Oil	S	S	Glycol	S	S
Bismuth Carbonate Sat'd	S	S	Crude Oil	S	M	Glycolic Acid 30%	S	S
Bleach Lye 10%	S	S	Cuprous Chloride Sat'd	S	S	Grape Sugar Sat'd Aq.	S	S
Black Liquor	S	S	Cychohexanol	S	S	Hexanol, Tert.	S	S
Borax Cold Sat'd	S	S	Cyclohexanone	M	U	Hydrobromic Acid 50%O	S	S
Boric Acid Dilute	S	S	Detergents Synthetic	S	S	Hydrocyanic Acid Sat'd	S	S
Boric Acid Conc.	S	S	Developers, Photographic	S	S	Hydrochloric Acid 10%	S	S
Bromic Acid 10%	S	S	Dextrin Sat'd	S	S	Hydrochloric Acid 30%	S	S
Bromine Liquid 100%	M	U	Dextrose Sat'd	S	S	Hydrochloric Acid 35%	S	S
butanediol 10%	S	S	Dibutylphthalate	S	M	Hydrochloric Acid Conc.	S	S
butanediol 60%	S	S	Disodium Phosphate	S	S	Hydrofluoric Acid 40%	S	S
butanediol 100%	S	S	Diazo Salts	S	S	Hydrofluoric Acid 60%	S	S
butyl Alcohol 100%	S	S	Diethylene Glycol	S	S	Hydrofluoric Acid 75%	S	S
Calcium Bisulfide	S	S	Diglycolic Acid	S	S	Hydrogen 100%	S	S
Calcium Carbonate Sat'd	S	S	Dimethylamine	M	U	Hydrogen Bromide 10%	S	S
Calcium Chlorate Sat'd	S	S	Emulsions, Photographic	S	S	Hydrogen Chloride Gas Dry	S	S

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Hydrogen Peroxide 30%	S	S	Petroleum Ether	U	U	Sodium Carbonate Con.	S	S
Hydrogen Peroxide 90%	S	M	Phenol 90%	U	U	Sodium Carbonate	S	S
Hydrogen Phosphide 100%	S	S	Phosphoric Acid Up to 30%	S	S	Sodium Chlorate Sat'd	S	S
Hydroquinone	S	S	Phosphoric Acid Over 30%	S	S	Sodium Chkloride Sat'd	S	S
Hydrogen Sulfide	S	S	Phosphoric Acid 90%	S	S	Sodium Cyanide	S	S
Hypochlorus Acid Conc.	S	S	Phosphorous (Yellow) 100%	S	N	Sodium Dichromate Sat'd	S	S
Inks	S	S	Phosphorus Pentoxide 100%	S	N	Sodium Ferncyanide	S	S
Lodine (Alc. Sol.) Conc.	S	U	Photographic Solutions	S	S	Sodium Ferrocyanide Sat'd	S	S
Lactic Acid 10%	S	S	Sulfuric Acid	S	S	Sodium Fluoride Sat'd	S	S
Lactic Acid 90i/O	S	S	Hydrochloric Acid	S	S	Sodium Hydroxide Conc.	S	S
Latex	S	S	Sulfuric-Nitric	S	U	Sodium Hypochlorite	S	S
Lead Acetate Sat'd	S	S	Potassium Bicarbonate Sat'd	S	S	Sodium Nitrate	S	S
Lube Oil	S	M	Potassium Borate 1%	S	S	Sodium Sulfate	S	S
Magnesium Carbonate Sat'd	S	S	Potassium Bromate 10%	S	S	Sodium Sulfide 25%	S	S
Magnesium Chloride Sat'd	S	S	Potassium Bromide Sat'd	S	S	Sodium Sulfide Sat'd Sol.	S	S
Magnesium Hydroxide Sat'd	S	S	Potassium Carbonate	S	S	Sodium Sulfite Sat'd	S	S
Magnesium Nitrate Sat'd	S	S	Potassium Chlorate Sat'd	S	S	Stannous Chloride Sat'd	S	S
Magnesium Sulfate Sat'd	S	S	Potassium Chloride Sat'd	S	S	Stannic Chloride Sat'd	S	S
Mercuric Chloride Sat'd	S	S	Potassium Chromate 40%	S	S	Starch Solution SaUd	S	S
Mercuric Cyanide Sat'd	S	S	Potassium Cyanide Sat'd	S	S	Steanc Acid 100%	S	S
Mercurous Nitrate Sat'd	S	S	Potassium Dichromate 40%	S	S	Sulfuric Acid 0-50%	S	S
Mercury	S	S	Potassium Ferri/Ferro Cyanide Sat'd	S	S	Sulfuric Acid 70%	S	M
Methyl Alcohol 100%	S	S	Potassium Fluoride	S	S	Sulfuric Acid 80%	S	U
Methyl Bromide	M	U	Potassium Hydroxide 20%	S	S	Sulfuric Acid 96%	M	U
Methyl Chloride	M	U	Potassium Hydroxide Conc.	S	S	Sulfuric Acid 98%	M	U
Methyl Ethyl Ketone 100%	M	U	Potassium Nitrate Sat'd	S	S	Sulfuric Acid, Fuming	U	U
Methylsulfuric Acid	S	S	Potassium Perborate Sat'd	S	S	Sulfurous Acid	S	S
Methylene Chloride 100%	M	U	Potassium Perchlorate 10%	S	S	Tallow	S	M
Milk	S	S	Potassium Sulfate Conc.	S	S	Tannic Acid 10%	S	S
Mineral Oils	S	U	Potassium Sulfide Conc.	S	S	Tanning Extracts Comm.	S	S
Molasses Comm.	S	S	Potassium Sulfite Conc.	S	S	Tartaric Acid Sat'd	N	N
Nickel Chloride Sat'd	S	S	Potassium Persulfate Satd	S	S	Tetrahydrofurane	N	U
Nickel Nitrate Conc.	S	S	Propargyl Alcohol	S	S	Titanium Tetrachloride Sat'd	N	U
Nickel Sulfate Sat'd	S	S	Propyl Alcohol	S	S	Toluene	M	U
Nicotine Dilute	S	S	Propylene Dichloride 100%	U	U	Transformer Oil	S	M
Nicotinic Acid	S	S	Propylene Glycol	S	S	Trisodium Phosphate Sat'd	S	S
Nitric Acid 0-30%	S	S	Rayon Coagulating Bath	S	S	Trichloroethylene	U	U
Nitric Acid 30-50%	S	M	Sea Water	S	S	Urea Up to 30%	S	S
Nitric Acid 70%	S	M	Selenic Acid	S	S	Urine	S	S
Nitric Acid 95-98%	U	U	Shortening	S	S	Vinegar Comm.	S	S
Nitrobenzene 100%	U	U	Silicic Acid	S	S	Vanilla Extract	S	S
Octyl Cresol	S	U	Silver Nitrate Sol.	S	S	Wetting Agents	S	S
Oils and Fats	S	M	Soap Solution Any Conc'n	S	S	Whiskey	S	N
Oleic Acid Conc.	S	U	Sodium Acetate Sat'd	S	S	Wines	S	S
Oleum Conc.	U	U	Sodium Benzoate 35%	S	S	Xylene	M	U
Orange Extract	S	S	Sodium Bicarbonate Sat'd	S	S	Yeast	S	S
Oxalic Acid Dilute	S	S	Sodium Bisulfate Sat'd	S	S	Zinc Chloride Sat'd	S	S
Oxalic Acid Sat'd	S	S	Sodium Bisulfite Sat'd	S	S	Zinc Sulfate Sat'd	S	S
Ozone 100%	S	U	Sodium Borate	S	S			
PerchlomcAcid 10%	S	S	Sodium Bromide Dilute Sol.	S	S			

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