

CHEMICAL RESISTANCE DATA CHART

Chemical Resistance Key:

R - Resistant N - Not Resistant V - Variable Resistance U - Unknown

Caution Key:

(P) - Plasticizer (A) - Known Stress Crack Agent (O) - Oxidizer (B) - Suspected Stress Crack Agent

Chemical	70°F (21°C)	140°F (60°C)
Acetaldehyde -100% (A)	V	N
Acetic Acid -10% (A)	R	R
Acetic Acid - 60% (A)	R	V
Acetic Anhydride (B)	N	N
Aluminum Chloride - all conc.	R	R
Aluminum Fluoride - all conc.	R	R
Aluminum Sulfate - all conc.	R	R
Alums - all types	R	R
Ammonia - 100% dry gas	R	R
Ammonium Carbonate	R	R
Ammonium Chloride - sat'd.	R	R
Ammonium Fluoride - sat'd.	R	R
Ammonium Hydroxide - 10%	R	R
Ammonium Hydroxide - 28%	R	R
Ammonium Nitrate - sat'd.	R	R
Ammonium Persulfate - sat'd.	R	R
Ammonium Sulfate - sat'd.	R	R
Ammonium Metaphosphate - sat'd.	R	R
Amyl Acetate -100% (BP)	N	N
Amyl Alcohol - 100% (AP)	R	R
Amyl Chloride -100% (P)	N	N
Aniline - 100% (AP)	N	N
Aqua Regia (O)	N	N
Arsenic Acid - all conc.	R	R
Aromatic Hydrocarbons (BP)	N	N
Ascorbic acid -10%	R	R
Barium Carbonate - sat'd.	R	R
Barium Chloride - sat'd.	R	R
Barium Hydroxide	R	R
Barium Sulfate - sat'd.	R	R
Barium Sulfide - sat'd.	R	R
Beer	R	R
Benzene (BP)	N	N
Benzoic acid - all conc.	R	R
Bismuth Carbonate - sat'd.	R	R
Bleach Lye - 10%	R	R
Borax - sat'd.	R	R
Boric acid - all conc.	R	R
Boron Trifluoride	R	R
Brine	R	R
Bromine - liquid (O)	N	N
Butanediol 10% (A)	R	R
Butanediol - 60% (A)	R	R
Butanediol -100% (A)	R	R
Butter (B)	R	R
Butyl Acetate -100% (BP)	V	N
Butyl Alcohol -100% (A)	R	R
Butyric Acid - conc. (P)	N	N
Cadmium Salts	R	R

Chemical	70°F (21°C)	140°F (60°C)
Calcium Bisulfide	R	R
Calcium Carbonate - sat'd	R	R
Calcium Chlorate - sat'd.	R	R
Calcium Chloride - sat'd	R	R
Calcium Hydroxide - conc.	R	R
Calcium Hyochlorite - bleach soln.	R	R
Calcium Nitrate - 50%	R	R
Calcium Oxide - sat'd.	R	R
Calcium Salts	R	R
Calcium Sulfate	R	R
Camphor Oil (BP)	N	N
Carbon Dioxide - all conc.	R	R
Carbon Disulphide	N	N
Carbon Monoxide	R	R
Carbon Tetrachloride (P)	N	N
Carbonic Acid	R	R
Castor Oil - conc. (A)	R	R
Chlorine -100% dry gas (O)	V	N
Chlorine Liquid (O)	N	N
Chlorine Water- 2% sat'd sol'n	V	R
Chlorobenzene (BP)	R	N
Chlorofoam (BP)	N	N
Chlorosulfonic Acid -100%	V	N
Chromic Acid - 10%	R	R
Chromic Acid - 50%	R	V
Cider (A)	R	R
Citric Acid - sat'd. (A)	R	R
Coconut Oil Alcohols (A)	R	R
Coffee	R	R
Cola Concentrates (A)	R	R
Copper Chloride - sat'd.	R	R
Copper Cyanide - sat'd.	R	R
Copper Fluoride - 2%	R	R
Copper Nitrate - sat'd.	R	R
Copper Sulfate - sat'd.	R	R
Corn Oil (A)	R	R
Cottonseed Oil (A)	R	R
Cresol - 100%	R	R
Cuprous Chloride - sat'd.	R	R
Detergents, synthetic (A)	R	R
Developers, photographic	R	R
Dextrin - sat'd.	R	R
Dextrose - sat'd.	R	R
Diazo Salts	R	R
Dibutylphthalate (B)	V	V
Dichlorobenzene (BP)	R	R
Diethyl Kentone (BP)	V	N
Diethylene Glycol (A)	R	R
Diglycolic Acid (A)	R	R
Dimethylamine	N	N

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Chemical	70°F	140°F
	(21°C)	(60°C)
Disodium Phosphate	R	R
Emulsions, photographic (A)	R	R
Epsom Salts - Magnesium Sulfate	R	R
Ethyl Acetate -100% (BP)	V	N
Ethyl Alcohol -100% (A)	R	R
Ethyl Alcohol - 35% (A)	R	R
Ethyl Benzene (BP)	N	N
Ethyl Chloride (P)	N	N
Ethyl Ether (P)	N	N
Ethylene Chloride (BP)	N	N
Ethylene Glycol (A)	R	R
Fatty Acids (A)	R	R
Ferric Chloride - sat'd.	R	R
Ferric Nitrate - sat'd.	R	R
Ferrous Chloride - sat'd	R	R
Ferrous Sulfate	R	R
Fish Solubles (A)	R	R
Fluoboric Acid	R	R
Fluosilicic kid - conc.	R	V
Fluosilicic kid - 32%	R	R
Formic Acid - all conc.	R	R
Fructose - sat'd.	R	R
Fruit Pulp (B)	R	R
Furfural -100% (P)	N	N
Furfuryl Alcohol (BP)	N	N
Gallic Acid - sat'd. (A)	R	R
Gasoline (PB)	N	N
Glucose	R	R
Glycerine (A)	R	R
Glycol (A)	R	R
Glycolic Acid - 30% (A)	R	R
Grape Sugar- sat. ag	R	R
Heptane (PB)	N	N
Hexachlorobenzens	R	R
Hexanol, Tertiary (A)	R	R
Hydrobromic Acid - 50%	R	R
Hydrochloric Acid - all conc.	R	R
Hydrocyanic Acid - sat'd.	R	R
Hydrofluoric Acid - 40% (A)	R	R
Hydrofluoric Acid - 60% (A)	R	R
Hydrogen -100%	R	R
Hydrogen Chloride - dry gas	R	R
Hydrogen Peroxide - 30%	R	R
Hydrogen Sulfide	R	R
Hypochlorous Acid - conc	R	R
Inks (A)	R	R
Iodine - in KI Sol'n (O)	V	N

Chemical	70°F	140°F
	(21°C)	(60°C)
Lead Acetate - sat'd.	R	R
Lead Nitrate	R	R
Lime	R	R
Magnesium Carbonate - sat'd	R	R
Magnesium Chloride - sat'd.	R	R
Magnesium Hydroxide - sat'd.	R	R
Magnesium Nitrate - sat'd.	R	R
Magnesium Sulfate - sat'd.	R	R
Mercuric Chloride - 40%	R	R
Mercuric Cyanide - sat'd	R	R
Methyl Alcohol -100% (A)	R	R
Methylene Chloride -100% (PB)	N	N
Milk	R	R
Mineral Oils (P)	V	N
Molasses	R	R
Naphtha (PA)	V	N
Naphthalene (PB)	N	N
Nickel Chloride - conc.	R	R
Nickel Nitrate - sat'd.	R	R
Nickel Sulfate - conc.	R	R
Nicotine - dilute (A)	R	R
Nitric Acid - 0-30%	R	R
Nitric Acid - 30-50% (O)	R	V
Nitric Acid - 70% (O)	R	V
Nitric Acid - 95-98% (O)	N	N
Nitrobenzene -100% (PB)	N	N
Nonyl phenol ethoxylate (B)	N	N
Octane	R	R
Oxalic Acid - sat'd. (A)	R	R
Perchloroethylene (P)	N	N
Phosphorous Pentoxide	V	N
Photographic Solutions	R	R
Plating Solutions	R	R
Brass (A)	R	R
Cadmium (A)	R	R
Gold (A)	R	R
Nickel (A)	R	R
Silver (A)	R	R
Tin (A)	R	R
Zinc (A)	R	R
Potassium Bicarbonate - sat'd.	R	R
Potassium Bromate -10%	R	R
Potassium Bromide - sat'd	R	R
Potassium Carbonate	R	R
Potassium Chlorate - sat'd.	R	R
Potassium Chloride - sat'd.	R	R
Potassium Chromate - 40%	R	R
Potassium Cyanide - sat'd	R	R
Potassium Dichromate - 40%	R	R
Potassium Ferri/Ferro Cyanide sat'd.	R	R
Potassium Fluoride	R	R

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Chemical	70°F (21°C)	140°F (60°C)
Potassium Hydroxide - 20%	R	R
Potassium Hydroxide - conc.	R	R
Potassium Nitrate - sat'd.	R	R
Potassium Perchlorate -10%	R	R
Potassium Permanganate - 20%	R	R
Potassium Persulfate - sat'd.	R	R
Potassium Sulfate - conc	R	R
Potassium Sulfide - conc.	R	R
Potassium Sulfite - conc.	R	R
Propargyl Alcohol (A)	R	R
Propyl Alcohol (A)	R	R
Propylene Dichloride -100% (PB)	N	N
Propylene Glycol (A)	R	R
Pyridine (B)	R	U
Rayon Coagulating Bath (B)	R	R
Resorcinol - sat'd.	R	R
Salicylic Acid - sat'd.	R	R
Sea Water	R	R
Selenic acid	R	R
Shortening (A)	R	R
Silver Nitrate Solution	R	R
Soap Solution - any conc. (A)	R	R
Sodium Acetate - sat'd.	R	R
Sodium Benzoate - 35%	R	R
Sodium Bicarbonate - sat'd	R	R
Sodium Bisulfate - sat'd	R	R
Sodium Bisulfite - sat'd	R	R
Sodium Borate	R	R
Sodium Bromide - dilute	R	R
Sodium Carbonate - conc	R	R
Sodium Chlorate - sat'd.	R	R
Sodium Chloride - sat'd	R	R
Sodium Chlorite-30%	R	R
Sodium Chlorite-50%	R	V
Sodium Cyanide	R	R
Sodium Dichromate - sat'd.	R	R
Sodium Ferri/Ferro Cyanide - sat'd	R	R
Sodium Fluoride - sat'd.	R	R
Sodium Hydroxide - conc.	R	R
Sodium Hydroxide 35% or less	R	V
Sodium Hydroxide 50% or above	V	N
Sodium Hypochlorite 0-12%	R	R
Sodium Hypochlorite 12-16.5%	R	V
Sodium Hypochlorite 16.5 or higher	N	N
Sodium Nitrate	R	R
Sodium Sulfate	R	R
Sodium Sulfide - sat'd.	R	R
Sodium Sulfite - sat'd.	R	R
Sodium thiosulphate pentahydrate	V	U
Stannic Chloride - sat'd.	R	R

Chemical	70°F (21°C)	140°F (60°C)
Stannous Chloride - sat'd.	R	R
Starch Solution - sat'd. (A)	R	R
Stearic Acid -100% (A)	R	R
Sulfuric Acid - 0-50%	R	R
Sulfuric Acid - 70% (O)	R	V
Sulfuric Acid - 80% (O)	R	N
Sulfuric Acid - 96% (O)	V	N
Sulfuric Acid - 98% conc. (O)	V	N
Sulfuric Acid - fuming (O)	N	N
Sulfurous Acid	R	R
Tallow (P)	R	V
Tannic Acid - sat'd (A)	R	R
Tartaric Acid - 10%	R	R
Tetrahydrofuran	N	N
Titanium Tetrachloride - sat'd. (B)	N	N
Toluene (PB)	N	N
Transformer Oil	R	V
Trichloroethylene (PB)	N	N
Triethylene Glycol (B)	R	R
Trisodium Phosphate - sat'd	R	R
Turpentine (P)	N	N
Urea - 0-30%	R	R
Urine	R	R
Vanilla Extract (A)	R	R
Varnish	R	N
Vinegar	R	R
Water	R	R
Wetting Agents (A)	R	R
Whiskey (A)	R	R
Wines (B)	R	R
Xylene (P)	N	N
Yeast	R	R
Zinc Bromide - sat'd.	R	R
Zinc Carbonate - sat'd	R	R
Zinc Chloride - sat'd	R	R
Zinc Oxide - sat'd	R	R
Zinc Stearate	R	R
Zinc Sulfate - sat'd	R	R

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