Chemical Compatibility Database

MATERIAL SELECTED : Polypropylene

SHARE PRINT

CHEMICAL	COMPATIBILITY
Acetaldehyde	A[1] - Excellent
Acetamide	A[1] - Excellent
Acetate Solvent	B[1] - Good
Acetic Acid	B - Good
Acetic Acid 20%	A - Excellent
Acetic Acid 80%	A - Excellent
Acetic Acid, Glacial	A[1] - Excellent
Acetic Anhydride	B[1] - Good
Acetone	A - Excellent
Acetyl Bromide	N/A
Acetyl Chloride (dry)	D - Poor
Acetylene	A[1] - Excellent
Acrylonitrile	A[1] - Excellent
Adipic Acid	B[2] - Good

Ratings - Chemical Effect

A - Excellent

B - Good: Minor Effect, slight corrosion, or discoloration.

C - Fair: Moderate Effect, not recommended for continuous use. Softening or loss of strength, and swelling may occur.

D - Severe Effect: Not recommended for any use.

E - Information not available.

Explanation of Footnotes

1-Satisfactory to 72oF (22oC)

2-Satisfactory to 120oF (48oC)

Alcohols: Amyl	B[1] - Good
Alcohols: Benzyl	A - Excellent
Alcohols: Butyl	A - Excellent
Alcohols: Diacetone	B[2] - Good
Alcohols: Ethyl	A - Excellent
Alcohols: Hexyl	N/A
Alcohols: Isobutyl	A[1] - Excellent
Alcohols: Isopropyl	A[2] - Excellent
Alcohols: Methyl	A[2] - Excellent
Alcohols: Octyl	N/A
Alcohols: Propyl	A - Excellent
Aluminum Chloride	A - Excellent
Aluminum Chloride 20%	A - Excellent
Aluminum Fluoride	A - Excellent
Aluminum Hydroxide	A - Excellent
Aluminum Nitrate	A[2] - Excellent
Aluminum Potassium Sulfate 10%	A - Excellent
Aluminum Potassium Sulfate 100%	A - Excellent
Aluminum Sulfate	A - Excellent
Alums	A - Excellent

Amines	B[2] - Good
Ammonia 10%	A[2] - Excellent
Ammonia Nitrate	A - Excellent
Ammonia, anhydrous	A - Excellent
Ammonia, liquid	A[2] - Excellent
Ammonium Acetate	A - Excellent
Ammonium Bifluoride	A - Excellent
Ammonium Carbonate	A - Excellent
Ammonium Caseinate	N/A
Ammonium Chloride	A - Excellent
Ammonium Hydroxide	A - Excellent
Ammonium Nitrate	A - Excellent
Ammonium Oxalate	A - Excellent
Ammonium Persulfate	A - Excellent
Ammonium Phosphate, Dibasic	A - Excellent
Ammonium Phosphate, Monobasic	A - Excellent
Ammonium Phosphate, Tribasic	A - Excellent
Ammonium Sulfate	A - Excellent
Ammonium Sulfite	A[2] - Excellent
Ammonium Thiosulfate	N/A

Amyl Acetate	B[1] - Good
Amyl Alcohol	B[1] - Good
Amyl Chloride	D - Poor
Aniline	A[1] - Excellent
Aniline Hydrochloride	D - Poor
Antifreeze	D - Poor
Antimony Trichloride	A - Excellent
Aqua Regia (80% HCl, 20% HNO3)	B[1] - Good
Arochlor 1248	D - Poor
Aromatic Hydrocarbons	D - Poor
Arsenic Acid	A - Excellent
Arsenic Salts	N/A
Asphalt	B[1] - Good
Barium Carbonate	A - Excellent
Barium Chloride	A - Excellent
Barium Cyanide	D - Poor
Barium Hydroxide	B - Good
Barium Nitrate	A - Excellent
Barium Sulfate	B[1] - Good
Barium Sulfide	B - Good

Beer	A[1] - Excellent
Beet Sugar Liquids	A[1] - Excellent
Benzaldehyde	D - Poor
Benzene	D - Poor
Benzene Sulfonic Acid	D - Poor
Benzoic Acid	B[1] - Good
Benzol	B - Good
Benzonitrile	N/A
Benzyl Chloride	C[1] - Fair
Bleaching Liquors	A[1] - Excellent
Borax (Sodium Borate)	B - Good
Boric Acid	A - Excellent
Brewery Slop	N/A
Bromine	D - Poor
Butadiene	C - Fair
Butane	A[1] - Excellent
Butanol (Butyl Alcohol)	A[1] - Excellent
Butter	N/A
Buttermilk	A[1] - Excellent
Butyl Amine	B[1] - Good

Butyl Ether	D - Poor
Butyl Phthalate	B^2 - Good
Butylacetate	B^1 - Good
Butylene	N/A
Butyric Acid	B^1 - Good
Calcium Bisulfate	N/A
Calcium Bisulfide	A - Excellent
Calcium Bisulfite	A - Excellent
Calcium Carbonate	A - Excellent
Calcium Chlorate	N/A
Calcium Chloride	A^2 - Excellent
Calcium Hydroxide	A^2 - Excellent
Calcium Hypochlorite	A^1 - Excellent
Calcium Nitrate	A^2 - Excellent
Calcium Oxide	A - Excellent
Calcium Sulfate	A - Excellent
Calgon	A - Excellent
Cane Juice	C^1 - Fair
Carbolic Acid (Phenol)	B - Good
Carbon Bisulfide	D - Poor

Carbon Dioxide (dry)	A[2] - Excellent
Carbon Dioxide (wet)	A[2] - Excellent
Carbon Disulfide	D - Poor
Carbon Monoxide	A - Excellent
Carbon Tetrachloride	D - Poor
Carbon Tetrachloride (dry)	D - Poor
Carbon Tetrachloride (wet)	D - Poor
Carbonated Water	B - Good
Carbonic Acid	A - Excellent
Catsup	A - Excellent
Chloric Acid	N/A
Chlorinated Glue	N/A
Chlorine (dry)	D - Poor
Chlorine Water	D - Poor
Chlorine, Anhydrous Liquid	D - Poor
Chloroacetic Acid	C[1] - Fair
Chlorobenzene (Mono)	C[1] - Fair
Chlorobromomethane	A - Excellent
Chloroform	C[1] - Fair
Chlorosulfonic Acid	D - Poor

Chocolate Syrup	A[2] - Excellent
Chromic Acid 10%	D - Poor
Chromic Acid 30%	D - Poor
Chromic Acid 5%	D - Poor
Chromic Acid 50%	D - Poor
Chromium Salts	N/A
Cider	A - Excellent
Citric Acid	A - Excellent
Citric Oils	A - Excellent
Cloroxr (Bleach)	D - Poor
Coffee	A - Excellent
Copper Chloride	A - Excellent
Copper Cyanide	A - Excellent
Copper Fluoborate	N/A
Copper Nitrate	A - Excellent
Copper Sulfate >5%	A - Excellent
Copper Sulfate 5%	A - Excellent
Cream	A - Excellent
Cresols	D - Poor
Cresylic Acid	A[1] - Excellent

Cupric Acid	A^2 - Excellent
Cyanic Acid	N/A
Cyclohexane	D - Poor
Cyclohexanone	D - Poor
Detergents	A - Excellent
Diacetone Alcohol	A^1 - Excellent
Dichlorobenzene	C^1 - Fair
Dichloroethane	D - Poor
Diesel Fuel	A^1 - Excellent
Diethyl Ether	A^1 - Excellent
Diethylamine	A^1 - Excellent
Diethylene Glycol	A^2 - Excellent
Dimethyl Aniline	D - Poor
Dimethyl Formamide	A - Excellent
Diphenyl	D - Poor
Diphenyl Oxide	D - Poor
Dyes	N/A
Epsom Salts (Magnesium Sulfate)	A - Excellent
Ethane	D - Poor
Ethanol	A - Excellent

Ethanolamine	D - Poor
Ether	D - Poor
Ethyl Acetate	A[1] - Excellent
Ethyl Benzoate	B[1] - Good
Ethyl Chloride	D - Poor
Ethyl Ether	D - Poor
Ethyl Sulfate	N/A
Ethylene Bromide	D - Poor
Ethylene Chloride	C[1] - Fair
Ethylene Chlorohydrin	D - Poor
Ethylene Diamine	N/A
Ethylene Dichloride	D - Poor
Ethylene Glycol	A - Excellent
Ethylene Oxide	D - Poor
Fatty Acids	A - Excellent
Ferric Chloride	A - Excellent
Ferric Nitrate	A - Excellent
Ferric Sulfate	A - Excellent
Ferrous Chloride	A - Excellent
Ferrous Sulfate	A - Excellent

Fluoboric Acid	A - Excellent
Fluorine	D - Poor
Fluosilicic Acid	A - Excellent
Formaldehyde 100%	C - Fair
Formaldehyde 40%	A - Excellent
Formic Acid	A[1] - Excellent
Freon 113	D - Poor
Freon 12	A[2] - Excellent
Freon 22	B - Good
Freon TF	D - Poor
Freonr 11	A - Excellent
Fruit Juice	B - Good
Fuel Oils	A - Excellent
Furan Resin	D - Poor
Furfural	D - Poor
Gallic Acid	A - Excellent
Gasoline (high-aromatic)	A - Excellent
Gasoline, leaded, ref.	B - Good
Gasoline, unleaded	C[1] - Fair
Gelatin	A - Excellent

Glucose	A - Excellent
Glue, P.V.A.	N/A
Glycerin	A - Excellent
Glycolic Acid	A - Excellent
Gold Monocyanide	N/A
Grape Juice	N/A
Grease	N/A
Heptane	C^2 - Fair
Hexane	B^1 - Good
Honey	A - Excellent
Hydraulic Oil (Petro)	D - Poor
Hydraulic Oil (Synthetic)	D - Poor
Hydrazine	C - Fair
Hydrobromic Acid 100%	C^1 - Fair
Hydrobromic Acid 20%	A^2 - Excellent
Hydrochloric Acid 100%	B^1 - Good
Hydrochloric Acid 20%	B^2 - Good
Hydrochloric Acid 37%	C - Fair
Hydrochloric Acid, Dry Gas	B - Good
Hydrocyanic Acid	A - Excellent

Hydrocyanic Acid (Gas 10%)	A - Excellent
Hydrofluoric Acid 100%	C[1] - Fair
Hydrofluoric Acid 20%	A[2] - Excellent
Hydrofluoric Acid 50%	A[2] - Excellent
Hydrofluoric Acid 75%	C[1] - Fair
Hydrofluosilicic Acid 100%	A - Excellent
Hydrofluosilicic Acid 20%	A - Excellent
Hydrogen Gas	A - Excellent
Hydrogen Peroxide 10%	A - Excellent
Hydrogen Peroxide 100%	B[1] - Good
Hydrogen Peroxide 30%	B[1] - Good
Hydrogen Peroxide 50%	B[1] - Good
Hydrogen Sulfide (aqua)	A[1] - Excellent
Hydrogen Sulfide (dry)	A[1] - Excellent
Hydroquinone	A - Excellent
Hydroxyacetic Acid 70%	N/A
Ink	N/A
Iodine	C - Fair
Iodine (in alcohol)	N/A
Iodoform	N/A

Isooctane	A[2] - Excellent
Isopropyl Acetate	B[1] - Good
Isopropyl Ether	B - Good
Isotane	D - Poor
Jet Fuel (JP3, JP4, JP5)	A[1] - Excellent
Kerosene	B - Good
Ketones	C - Fair
Lacquer Thinners	D - Poor
Lacquers	D - Poor
Lactic Acid	B - Good
Lard	B[1] - Good
Latex	A[2] - Excellent
Lead Acetate	A[1] - Excellent
Lead Nitrate	A[2] - Excellent
Lead Sulfamate	A[2] - Excellent
Ligroin	A[2] - Excellent
Lime	N/A
Linoleic Acid	B[1] - Good
Lithium Chloride	A[2] - Excellent
Lithium Hydroxide	N/A

Lubricants	A[1] - Excellent
Lye: Ca(OH)2 Calcium Hydroxide	A[2] - Excellent
Lye: KOH Potassium Hydroxide	A - Excellent
Lye: NaOH Sodium Hydroxide	A - Excellent
Magnesium Bisulfate	A[2] - Excellent
Magnesium Carbonate	A - Excellent
Magnesium Chloride	A[2] - Excellent
Magnesium Hydroxide	A - Excellent
Magnesium Nitrate	A - Excellent
Magnesium Oxide	N/A
Magnesium Sulfate (Epsom Salts)	A - Excellent
Maleic Acid	A - Excellent
Maleic Anhydride	D - Poor
Malic Acid	A[1] - Excellent
Manganese Sulfate	N/A
Mash	N/A
Mayonnaise	N/A
Melamine	A - Excellent
Mercuric Chloride (dilute)	B - Good
Mercuric Cyanide	B - Good

Mercurous Nitrate	A - Excellent
Mercury	B - Good
Methane	A - Excellent
Methanol (Methyl Alcohol)	A^2 - Excellent
Methyl Acetate	D - Poor
Methyl Acetone	N/A
Methyl Acrylate	D - Poor
Methyl Alcohol 10%	A^2 - Excellent
Methyl Bromide	C - Fair
Methyl Butyl Ketone	D - Poor
Methyl Cellosolve	B - Good
Methyl Chloride	D - Poor
Methyl Dichloride	D - Poor
Methyl Ethyl Ketone	B - Good
Methyl Ethyl Ketone Peroxide	N/A
Methyl Isobutyl Ketone	A - Excellent
Methyl Isopropyl Ketone	N/A
Methyl Methacrylate	D - Poor
Methylamine	A^2 - Excellent
Methylene Chloride	B^1 - Good

Milk	B - Good
Mineral Spirits	B - Good
Molasses	B - Good
Monochloroacetic acid	N/A
Monoethanolamine	B - Good
Morpholine	B^2 - Good
Motor oil	A^1 - Excellent
Mustard	A - Excellent
Naphtha	B - Good
Naphthalene	B - Good
Natural Gas	A - Excellent
Nickel Chloride	A - Excellent
Nickel Nitrate	A^2 - Excellent
Nickel Sulfate	A - Excellent
Nitrating Acid (<15% HNO3)	C - Fair
Nitrating Acid (>15% H2SO4)	C - Fair
Nitrating Acid (S1% Acid)	C - Fair
Nitrating Acid (S15% H2SO4)	C - Fair
Nitric Acid (20%)	A^2 - Excellent
Nitric Acid (50%)	B - Good

Nitric Acid (5-10%)	A - Excellent
Nitric Acid (Concentrated)	D - Poor
Nitrobenzene	B[1] - Good
Nitrogen Fertilizer	N/A
Nitromethane	B[2] - Good
Nitrous Acid	A - Excellent
Nitrous Oxide	D - Poor
Oils: Aniline	A - Excellent
Oils: Anise	N/A
Oils: Bay	N/A
Oils: Bone	A - Excellent
Oils: Castor	A - Excellent
Oils: Cinnamon	D - Poor
Oils: Citric	A - Excellent
Oils: Clove	N/A
Oils: Coconut	A[1] - Excellent
Oils: Cod Liver	A[1] - Excellent
Oils: Corn	A[2] - Excellent
Oils: Cottonseed	A - Excellent
Oils: Creosote	C - Fair

Oils: Diesel Fuel (20, 30, 40, 50)	A[1] - Excellent
Oils: Fuel (1, 2, 3, 5A, 5B, 6)	B - Good
Oils: Ginger	N/A
Oils: Hydraulic Oil (Petro)	D - Poor
Oils: Hydraulic Oil (Synthetic)	D - Poor
Oils: Lemon	N/A
Oils: Linseed	A - Excellent
Oils: Mineral	A - Excellent
Oils: Olive	A - Excellent
Oils: Orange	A - Excellent
Oils: Palm	N/A
Oils: Peanut	D - Poor
Oils: Peppermint	N/A
Oils: Pine	B - Good
Oils: Rapeseed	D - Poor
Oils: Rosin	A[2] - Excellent
Oils: Sesame Seed	A - Excellent
Oils: Silicone	A - Excellent
Oils: Soybean	A[1] - Excellent
Oils: Sperm (whale)	N/A

Oils: Tanning	N/A
Oils: Transformer	B - Good
Oils: Turbine	B[1] - Good
Oleic Acid	B[1] - Good
Oleum 100%	D - Poor
Oleum 25%	D - Poor
Oxalic Acid (cold)	A[2] - Excellent
Ozone	B - Good
Palmitic Acid	B[1] - Good
Paraffin	A[1] - Excellent
Pentane	D - Poor
Perchloric Acid	C - Fair
Perchloroethylene	D - Poor
Petrolatum	D - Poor
Petroleum	B[1] - Good
Phenol (10%)	B[1] - Good
Phenol (Carbolic Acid)	B - Good
Phosphoric Acid (>40%)	A[2] - Excellent
Phosphoric Acid (crude)	B[2] - Good
Phosphoric Acid (molten)	D - Poor

Phosphoric Acid (S40%)	A^2 - Excellent
Phosphoric Acid Anhydride	A - Excellent
Phosphorus	A - Excellent
Phosphorus Trichloride	N/A
Photographic Developer	A - Excellent
Photographic Solutions	A^2 - Excellent
Phthalic Acid	A - Excellent
Phthalic Anhydride	D - Poor
Picric Acid	B^1 - Good
Plating Solutions, Antimony Plating 130°F	A - Excellent
Plating Solutions, Arsenic Plating 110°F	A - Excellent
Plating Solutions, Brass Plating: High-Speed Brass Bath 110°F	A - Excellent
Plating Solutions, Brass Plating: Regular Brass Bath 100°F	A - Excellent
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.	A - Excellent
Plating Solutions, Bronze Plating: Cu-Sn Bronze Bath 160°F	A - Excellent
Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath 100°F	A - Excellent

Plating Solutions, Cadmium Plating: Cyanide Bath 90°F	A - Excellent
Plating Solutions, Cadmium Plating: Fluoborate Bath 100°F	A - Excellent
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F	A - Excellent
Plating Solutions, Chromium Plating: Black Chrome Bath 115°F	A - Excellent
Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130°F	A - Excellent
Plating Solutions, Chromium Plating: Fluoride Bath 130°F	A - Excellent
Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F	D - Poor
Plating Solutions, Copper Plating (Acid): Copper Fluoborate Bath 120°F	A - Excellent
Plating Solutions, Copper Plating (Acid): Copper Sulfate Bath R.T.	A - Excellent
Plating Solutions, Copper Plating (Cyanide): Copper Strike Bath 120°F	A - Excellent
Plating Solutions, Copper Plating (Cyanide): High-Speed Bath 180°F	A - Excellent
Plating Solutions, Copper Plating (Cyanide): Rochelle Salt Bath 150°F	A - Excellent
Plating Solutions, Copper Plating (Misc): Copper (Electroless)	A - Excellent

Plating Solutions, Copper Plating (Misc): Copper Pyrophosphate	A - Excellent
Plating Solutions, Gold Plating: Acid 75°F	A - Excellent
Plating Solutions, Gold Plating: Cyanide 150°F	A - Excellent
Plating Solutions, Gold Plating: Neutral 75°F	A - Excellent
Plating Solutions, Indium Sulfamate Plating R.T.	A - Excellent
Plating Solutions, Iron Plating: Ferrous Am Sulfate Bath 150°F	A - Excellent
Plating Solutions, Iron Plating: Ferrous Chloride Bath 190°F	C - Fair
Plating Solutions, Iron Plating: Ferrous Sulfate Bath 150°F	A - Excellent
Plating Solutions, Iron Plating: Fluoborate Bath 145°F	A - Excellent
Plating Solutions, Iron Plating: Sulfamate 140°F	A - Excellent
Plating Solutions, Iron Plating: Sulfate-Chloride Bath 160°F	A - Excellent
Plating Solutions, Lead Fluoborate Plating	A - Excellent
Plating Solutions, Nickel Plating: Electroless 200°F	D - Poor

Plating Solutions, Nickel Plating: Fluoborate 100-170°F	A - Excellent
Plating Solutions, Nickel Plating: High-Chloride 130-160°F	A - Excellent
Plating Solutions, Nickel Plating: Sulfamate 100-140°F	A - Excellent
Plating Solutions, Nickel Plating: Watts Type 115-160°F	A - Excellent
Plating Solutions, Rhodium Plating 120°F	A - Excellent
Plating Solutions, Silver Plating 80-120°F	A - Excellent
Plating Solutions, Tin-Fluoborate Plating 100°F	A - Excellent
Plating Solutions, Tin-Lead Plating 100°F	A - Excellent
Plating Solutions, Zinc Plating: Acid Chloride 140°F	A - Excellent
Plating Solutions, Zinc Plating: Acid Fluoborate Bath R.T.	A - Excellent
Plating Solutions, Zinc Plating: Acid Sulfate Bath 150°F	A - Excellent
Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.	A - Excellent
Potash (Potassium Carbonate)	A - Excellent
Potassium Bicarbonate	A - Excellent
Potassium Bromide	A - Excellent

Potassium Chlorate	A - Excellent
Potassium Chloride	A - Excellent
Potassium Chromate	A - Excellent
Potassium Cyanide Solutions	A - Excellent
Potassium Dichromate	A - Excellent
Potassium Ferricyanide	A[2] - Excellent
Potassium Ferrocyanide	A - Excellent
Potassium Hydroxide (Caustic Potash)	A - Excellent
Potassium Hypochlorite	N/A
Potassium Iodide	A[2] - Excellent
Potassium Nitrate	A - Excellent
Potassium Oxalate	N/A
Potassium Permanganate	A[1] - Excellent
Potassium Sulfate	A - Excellent
Potassium Sulfide	A - Excellent
Propane (liquefied)	A - Excellent
Propylene	N/A
Propylene Glycol	A[2] - Excellent
Pyridine	A[2] - Excellent
Pyrogallic Acid	A - Excellent

Resorcinal	A^2 - Excellent
Rosins	A^2 - Excellent
Rum	A - Excellent
Rust Inhibitors	A - Excellent
Salad Dressings	A - Excellent
Salicylic Acid	A^1 - Excellent
Salt Brine (NaCl saturated)	A - Excellent
Sea Water	A - Excellent
Shellac (Bleached)	A - Excellent
Shellac (Orange)	A - Excellent
Silicone	A - Excellent
Silver Bromide	N/A
Silver Nitrate	A^1 - Excellent
Soap Solutions	A - Excellent
Soda Ash (see Sodium Carbonate)	A - Excellent
Sodium Acetate	A - Excellent
Sodium Aluminate	N/A
Sodium Benzoate	A^2 - Excellent
Sodium Bicarbonate	A - Excellent
Sodium Bisulfate	A - Excellent

Sodium Bisulfite	A - Excellent
Sodium Borate (Borax)	A[2] - Excellent
Sodium Bromide	N/A
Sodium Carbonate	A - Excellent
Sodium Chlorate	A - Excellent
Sodium Chloride	A - Excellent
Sodium Chromate	N/A
Sodium Cyanide	A - Excellent
Sodium Ferrocyanide	A - Excellent
Sodium Fluoride	A - Excellent
Sodium Hydrosulfite	N/A
Sodium Hydroxide (20%)	A - Excellent
Sodium Hydroxide (50%)	A - Excellent
Sodium Hydroxide (80%)	A - Excellent
Sodium Hypochlorite (<20%)	A - Excellent
Sodium Hypochlorite (100%)	B - Good
Sodium Hyposulfate	N/A
Sodium Metaphosphate	A[1] - Excellent
Sodium Metasilicate	A - Excellent
Sodium Nitrate	A - Excellent

Sodium Perborate	A - Excellent
Sodium Peroxide	B - Good
Sodium Polyphosphate	A - Excellent
Sodium Silicate	A - Excellent
Sodium Sulfate	A - Excellent
Sodium Sulfide	A - Excellent
Sodium Sulfite	A^2 - Excellent
Sodium Tetraborate	N/A
Sodium Thiosulfate (hypo)	A^2 - Excellent
Sorghum	N/A
Soy Sauce	N/A
Stannic Chloride	A - Excellent
Stannic Fluoborate	N/A
Stannous Chloride	A - Excellent
Starch	A^2 - Excellent
Stearic Acid	A^2 - Excellent
Stoddard Solvent	C - Fair
Styrene	N/A
Sugar (Liquids)	A - Excellent
Sulfate (Liquors)	A - Excellent

Sulfur Chloride	C[1] - Fair
Sulfur Dioxide	A[1] - Excellent
Sulfur Dioxide (dry)	A[1] - Excellent
Sulfur Hexafluoride	N/A
Sulfur Trioxide	C - Fair
Sulfur Trioxide (dry)	D - Poor
Sulfuric Acid (<10%)	A[2] - Excellent
Sulfuric Acid (10-75%)	A[1] - Excellent
Sulfuric Acid (75-100%)	C[1] - Fair
Sulfuric Acid (cold concentrated)	A[2] - Excellent
Sulfuric Acid (hot concentrated)	D - Poor
Sulfurous Acid	A - Excellent
Sulfuryl Chloride	N/A
Tallow	A[2] - Excellent
Tannic Acid	A - Excellent
Tanning Liquors	A[1] - Excellent
Tartaric Acid	A - Excellent
Tetrachloroethane	C - Fair
Tetrachloroethylene	D - Poor
Tetrahydrofuran	C[2] - Fair

Tin Salts	A - Excellent
Toluene (Toluol)	C[1] - Fair
Tomato Juice	A - Excellent
Trichloroacetic Acid	A - Excellent
Trichloroethane	C - Fair
Trichloroethylene	C[1] - Fair
Trichloropropane	N/A
Tricresylphosphate	A[1] - Excellent
Triethylamine	D - Poor
Trisodium Phosphate	A - Excellent
Turpentine	D - Poor
Urea	A - Excellent
Uric Acid	N/A
Urine	A - Excellent
Varnish	A - Excellent
Vegetable Juice	N/A
Vinegar	A - Excellent
Vinyl Acetate	B[1] - Good
Vinyl Chloride	N/A
Water, Acid, Mine	A - Excellent

Water, Deionized	A[2] - Excellent
Water, Distilled	A - Excellent
Water, Fresh	A - Excellent
Water, Salt	A - Excellent
Weed Killers	N/A
Whey	N/A
Whiskey & Wines	A - Excellent
White Liquor (Pulp Mill)	A[1] - Excellent
White Water (Paper Mill)	A - Excellent
Xylene	B - Good
Zinc Chloride	A - Excellent
Zinc Hydrosulfite	N/A
Zinc Sulfate	A - Excellent

WARNING
The information in this chart has been supplied to Cole-Parmer by other reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.

Ratings of chemical behavior listed in this chart apply at a 48-hr exposure period. Cole-Parmer has no knowledge of possible effects beyond this period. Cole-Parmer does not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.

DANGER
Variations in chemical behavior during handling due to factors such as temperature, pressure, and concentrations can cause equipment to fail, even though it passed an initial test.

SERIOUS INJURY MAY RESULT
Use suitable guards and/or personal protections when handling chemicals.