

316L Stainless Steel Chemical Compatibility Chart

ver 16-Oct-2018

Chemical

Ammonium Phosphate, Monobasic	C
Ammonium Phosphate, Tribasic	B
Ammonium Sulfate	B
Ammonium Sulfide	A
Ammonium Sulfite	B
Ammonium Thiocyanate	A
Ammonium Thiosulfate	A
Amyl Acetate	A
Amyl Alcohol	A
Amyl Chloride	B
Animal Oils	A
Aniline	B
Aniline Dyes	A
Aniline Hydrochloride	D
Antifreeze	A
Antimony Trichloride	D
Apple Juice	A
Aqua Regia (80% HCL, 20% HNO ₃)	D
Arochlor™ 1248	B
Argon Gas	A
Aromatic Hydrocarbons	C
Arsenic Acid	A ¹
Arsenic Pentafluoride Gas	A
Arsine Gas	A
Asphalt, emulsion	A
Asphalt, liquid	A
Barium Carbonate	B
Barium Chloride	A
Barium Hydroxide	B
Barium Nitrate	B
Barium Sulfate	B
Barium Sulfide	B ¹
Beer	A
Beet Sugar Liquors	A
Benzaldehyde	B
Benzene	B

Chemical

Benzene Sulfonic Acid	B
Benzoic Acid	B
Benzol	A
Benzonitrile	D
Benzyl Chloride	B
Bleach (sodium hypochlorite, 5.25%)	A
Bleach (chlorine, 12.5%)	C
Borax (sodium borate)	A
Boric Acid	A
Brake Fluid	A
Brewery Slop	A
Brines, acid	B
Bromine	D
Bunker Oils (fuel oils)	A
Butadiene	A
Butane	A ¹
Butanol (butyl alcohol)	A
Butter	A
Buttermilk	A
Butyl Acetate (butyl ethanoate)	B
Butyl Amine	A
Butyl Carbitol	A
Butyl Cellosolve	A
Butyl Chloride	B
Butyl Ether	A
Butyl Phthalate	B ¹
Butylamine	A
Butylene (butadiene)	A
Butyric Acid	B ¹
Calcium Bisulfate	A
Calcium Bisulfide	B
Calcium Bisulfite	A
Calcium Carbonate	B
Calcium Chloride, aqueous, 30%	B ¹
Calcium Fluoride	A
Calcium Hydroxide (Lye)	B

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Calcium Hydroxide, 10%	B
Calcium Hypochlorite, 30%	C
Calcium Hydroxide, saturated	B
Calcium Nitrate	B ¹
Calcium Oxide	A
Calcium Sulfate	B
Calcium Chlorate	A
Calgon	A
Cane Juice	A
Cane Sugar Liquors	A
Caprylic Acid	A
Carbolic Acid (phenol)	B
Carbon Bisulfide	B
Carbon Dioxide, dry	A
Carbon Dioxide, wet	A
Carbon Disulfide (carbon bisulfide)	B
Carbon Monoxide Gas	A
Carbon Tetrachloride	B
Carbon Tetrachloride Gas, dry	B ¹
Carbon Tetrachloride Gas, wet	A ¹
Carbon Tetrafluoride Gas	A
Carbonated Water	A
Carbonic Acid	A
Castor Oil	A
Catsup	A
Caustic Potash (sodium hydroxide)	A
Cellulube	A
Cellusolves (glycol ethers)	A
China Wood Oil (Tung oil)	A
Chloric Acid	C
Chlorinated Glue	A
Chlorine, dry	B
Chlorine Dioxide	D
Chlorine Water	C
Chlorine, anhydrous liquid	C
Chlorine, dry	B

Chemical

Chloroacetic Acid	B
Chlorobenzene, mono	B
Chloroform, dry	A
Chloropicrin	B
Chlorosulfonic Acid	B ¹
Chocolate Syrup	A
Chrome Alum (chromium potassium sulfate)	A
Chromic Acid, 5%	A
Chromic Acid, 10%	B
Chromic Acid, 30%	B ¹
Chromic Acid, 50%	B ¹
Chromic Oxide, aqueous	B
Chromyl Chloride	A
Cider	A
Citric Acid	A ¹
Citric Oils	A
Citrus Juices	A
Clorox® bleach (sodium hypochlorite, 5.25%)	C
Cocoa Butter	A
Coconut Oil	A
Coffee	A
Coffee Extracts, hot	A
Cooking Oil	A
Copper Acetate (blue verdigris)	A
Copper Ammonium Acetate	A
Copper Carbonate	A
Copper Chloride	D
Copper Cyanide	B
Copper Fluoborate (copper fluoroborate)	D
Copper Nitrate	A ¹
Copper Sulfate, 5%	B
Copper Sulfate, >5%	B
Copperas (hydrated ferrous sulfate)	B
Corn Oil	A
Cottonseed Oil	A
Cream	A

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Creosote Oil (coal tar)	A
Cresols	A
Cresylic Acid	A
Crotanaldehyde (crotan aldehyde)	A
Crude Oil, sour (0.5-2.5% sulfur)	A
Crude Oil, sweet (0.2 to 0.5% sulfur)	A
Cupric Acid	B ¹
Cupric Sulfate, aqueous	B
Cuprous Ammonia Acetate, aqueous	B
Cyanic Acid	A
Cyclohexane	A
Cyclohexanol	A
Cyclohexanone	A ¹
Detergent Solution	A
Detergents	A
Dextrin	B
Dextrose	A
Diacetone Alcohol	A
Diborane	A
Dibutyl Ether	A
Dibutyl Phthalate	A
Dibutylamine	A
Dichlorobenzene	B
Dichloroethane	B
Dichloroethylene	A
Dichlorohydrin	B
Diesel Fuels	A
Diethyl Carbonate	B
Diethyl Ether	B ¹
Diethylamine	A
Diethylene Glycol	A
Diethylenetriamine	B
Diisobutyl Ketone	A
Diisopropyl Ketone	A
Dimethyl Aniline	B ¹
Dimethyl Formamide (DMF)	B

Chemical

Dimethyl Hydrazine	B
Dimethyl Terephthalate (DMT)	B
Dimethylamine (DMA)	A
Diocetyl Phthalate (DOP)	A
Diphenyl	B
Diphenyl Oxide	A
Disodium Phosphate	A
Dowtherms (Diphenyl)	A
Dry Cleaning Fluids	A
Dyes	A
Ethyl Chloride, wet	B
Ethylene Chlorohydrin	A
Epichlorohydrin	A
Epsom Salts (magnesium sulfate)	B
Esters, general	A
Ethane	A
Ethanol	A
Ethanolamine	A
Ethers	A
Ethyl Acetate	B
Ethyl Acetoacetate	A
Ethyl Acrylate	A
Ethyl Alcohol	A
Ethyl Benzene	B
Ethyl Benzoate	B
Ethyl Chloride, dry	A
Ethyl Chloride, wet	B
Ethyl Ether	B
Ethyl Sulfate	D
Ethylene Bromide	A
Ethylene Chloride	B
Ethylene Chlorohydrin	B
Ethylene Diamine	B
Ethylene Dichloride (dichloroethane)	B
Ethylene Glycol	B
Ethylene Oxide	B

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Ethylene Trichloride	B
Fatty Acids	A
Ferric Chloride	D
Ferric Hydroxide	A
Ferric Nitrate	B
Ferric Sulfate	A
Ferrous Chloride	D
Ferrous Sulfate	B
Ferrous Sulfate, saturated	B
Fertilizer Solutions	A
Fish Oils	A
Fluoboric Acid	B
Fluorine	B
Fluorosilicic Acid	D
Food Fluids and Pastes	A
Formaldehyde, 35%	A
Formaldehyde, 37%	A
Formaldehyde, 40%	A
Formaldehyde, 50%	A
Formaldehyde, 100%	A
Formaldehyde, cold	A
Formaldehyde, hot	A
Formic Acid	B
Freon 11 (trichlorofluoromethane)	A
Freon 12 (dichlorodifluoromethane)	B
Freon 13 (chlorotrifluoromethane)	A
Freon 14 Tetrafluoromethane	A
Freon 21 Dichlorofluoromethane	A
Freon 22 Chlorodifluoromethane	A
Freon 23 Trifluoromethane / Fluoroform CHF	A
Freon 31 Chlorofluoromethane	A
Freon 113 TF Trichlorotrifluoroethane	A
Freon 115 Chloropentafluoroethane C	A
Freon 116 Hexafluoroethane C	A
Freon TF (trichlorotrifluoroethane)	A
Freon, dry	A

Chemical

Fruit Juices	A
Fuel Oils	A
Furan Resin	A
Furfural	B
Gallic Acid	B
Gasoline, aviation	A
Gasoline, high aromatic	A
Gasoline, leaded	A ¹
Gasoline, refined	A
Gasoline, sour	A
Gasoline, unleaded	A ¹
Gelatin	A ¹
Germane Gas	A
Gin	A
Glucose	A
Glue (PVA, polyvinyl acetate)	A ¹
Glycerine (glycerin, glycerol)	A
Glycolic Acid, < 70% (hydroxyacetic acid)	A
Glycols	A
Gold Monocyanide	A
Grape Juice	A
Grease	A
Green Liquor Sulfate	A
Helium Gas	A
Heptane or n-Heptane	A
Hexane or n-Hexane	A
Hexanol, tertiary	A
Hexyl Alcohol	A
Honey	A
Hydraulic Oil (petroleum)	A
Hydraulic Oil (synthetic)	A
Hydrazine	A
Hydrobromic Acid	D
Hydrobromic Acid, 20%	D
Hydrobromic Acid, 50%	D
Hydrobromic Acid, 100%	D

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Hydrobromic Acid, dilute	D
Hydrochloric Acid, 20%	D
Hydrochloric Acid, 37%	D
Hydrochloric Acid, 100%	D
Hydrochloric Acid, dry gas	D
Hydrocyanic Acid	D
Hydrofluoric Acid, < 50%	D
Hydrofluoric Acid, 50%	D
Hydrofluoric Acid, 70%	D
Hydrofluoric Acid, 75%	D
Hydrofluoric Acid, 100%	C
Hydrofluosilicic Acid, 20%	B
Hydrofluosilicic Acid, 100%	D
Hydrogen Cyanide	C
Hydrogen Fluoride	A
Hydrogen Gas	A
Hydrogen Iodine	B
Hydrogen Peroxide, 10%	B
Hydrogen Peroxide, 30%	B
Hydrogen Peroxide, 50%	A ¹
Hydrogen Peroxide, 100%	A ¹
Hydrogen Sulfide, aqueous	A
Hydrogen Sulfide, dry	A
Hydrogen Sulfide, wet cold	D
Hydroquinone	B
Hydroxyacetic Acid < 70% (glycolic acid)	A
Hypo (sodium thiosulfate, sodium hyposulfite)	A
Hypochlorites, Sodium	D
Hypochlorous Acid	D
Ink	C
Iodine	D
Iodine Solution, 10%	D
Iodine, in alcohol	A
Iodoform	A
Isobutyl Acetate	B
Isooctane	A

Chemical

Isopropyl Acetate	A
Isopropyl Alcohol (isopropanol)	A
Isopropyl Ether	A
Isopropylamine	B
Jet Fuel (JP3, JP4, JP5, JP6)	A
Kerosene	A
Ketchup (tomato sauce)	A
Ketones	A
Lacquers	A
Lacquer Thinners	A
Lactic Acid	B ¹
Lard (animal fat)	A
Latex	A ¹
Lauric Acid	A
Lead Acetate	B
Lead Chloride	B
Lead Nitrate	B
Lead Sulfamate	C
Lead Sulphate	A
Ligroin	A
Lime	A
Lime Sulfur (calcium polysulfides)	A
Linoleic Acid	A
Linseed Oil	A
Lithium Bromide	A
Lithium Chloride	A ¹
Lithium Hydroxide	B
LPG (liquified petroleum gas)	A
Lubricants	A ¹
Lubricating Oils	A
Lye (calcium hydroxide)	B
Lye (potassium hydroxide)	A
Lye (sodium hydroxide)	B
Machine Oil	A
Magnesium Bisulfate	A
Magnesium Carbonate	B

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Magnesium Chloride	D
Magnesium Hydroxide	A
Magnesium Nitrate	B
Magnesium Oxide	A
Magnesium Sulfate (Epsom salts)	B
Maleic Acid	B
Maleic Anhydride	A
Malic Acid	A ¹
Manganese Sulfate	B ¹
Mash	A
Mayonnaise	A
Melamine	D
Mercaptan (methanethiol)	A
Mercuric Chloride, dilute	D
Mercuric Cyanide	C
Mercuric Nitrate	A
Mercurous Nitrate	A
Mercury	A
Methane	A
Methanol (methyl alcohol, wood alcohol)	A
Methyl Acetate	B
Methyl Acetone	A
Methyl Acrylate	A
Methyl Alcohol 10%	A
Methyl Bromide	A
Methyl Butyl Ketone	A
Methyl Cellosolve	B
Methyl Chloride	A
Methyl Ethyl Ketone (MEK)	A
Methyl Formate	A
Methyl Isobutyl Carbinol	A
Methyl Isobutyl Ketone (MIK)	B
Methyl Isopropyl Ketone	A
Methyl Methacrylate	B
Methyl Sulfuric Acid	B
Methylamine	A

Chemical

Methylene Chloride	B
Milk	A
Mineral Oil	A
Mineral Spirits	A
Molasses, crude	A
Molasses, edible	A
Monochloroacetic Acid	A
Monochlorobenzene	A
Monoethanolamine	A
Morpholine	A
Motor Oil	A ¹
Muriatic Acid (hydrochloric acid)	D
Mustard	A
Naphtha	A
Naphthalene	A
Naphthalene Chloride	B
Naphthenic Acid	B
Natural Gas	A
Neon Gas	A
Nickle Ammonium Sulfate	A
Nickle Chloride	C
Nickle Nitrate	B ¹
Nickle Salt	B
Nickle Sulfate	B
Nitric Acid, 5%	A
Nitric Acid, 10%	A
Nitric Acid, 20%	A
Nitric Acid, 30%	A
Nitric Acid, 50%	A
Nitric Acid, concentrated	A
Nitrobenzene	B
Nitroethane	B
Nitrogen Gas	A
Nitrogen Trifluoride Gas	A
Nitromethane	A
Nitropropane	B

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Nitrous Acid	A
Nitrous Acid, 10%	A
Nitrous Acid, 5%	A
Nitrous Oxide	B
Octane	A
Oil Water Mixtures	A
Oil, Aniline	A
Oil, Anise	A
Oil, Bay	A
Oil, Bone (Dippel's oil)	A
Oil, Castor	A
Oil, Citric	A
Oil, Clove	A
Oil, Coconut	A
Oil, Cod Liver	A
Oil, Cooking	A
Oil, Corn	A
Oil, Cottonseed	A
Oil, Creosote	B
Oil, Crude Oil	A
Oil, Fish	A
Oil, Ginger	D
Oil, Lard	A
Oil, Lemon	A
Oil, Linseed	A
Oil, Machine	A
Oil, Olive	A
Oil, Orange	A
Oil, Palm	A
Oil, Peanut	A
Oil, Peppermint	A
Oil, Pine	A
Oil, Rapeseed	A
Oil, Sesame Seed	A
Oil, Silicone	A
Oil, Soybean	A

Chemical

Oil, Sperm (whale)	A
Oil, Tanning	A
Oil, Transformer	A
Oil, Tung (China wood oil)	A
Oil, Turbine	A
Oil, Vegetable	A
Oils and Fats	A
Oils, Animal	A
Oils, Bunker	A
Oils, Diesel Fuel (20, 30, 40, 50)	A
Oils, Fuel Oil (1, 2, 3, 5A, 5B, 6)	A
Oils, Lubricating	A
Oils, Mineral	A
Oleic Acid	A
Oleum, 25% (fuming sulfuric acid)	A
Olive Oil	A
Oxalic Acid, 5%	A
Oxalic Acid, 10%	A
Oxalic Acid, 50%	D
Oxalic Acid, cold	D
Oxygen Gas	A
Ozone, dry	A
Ozone, wet	A
Paints and Solvents	A
Palm Oil	A
Palmitic Acid	A
Paraffin	A
Paracymene or p-Cymene	A
Paraformaldehyde	A
Peanut Oil	A
Pectin, liquor	A
Pentane	A
Peracetic Acid, 40%	A
Perchloric Acid	C
Perchloroethylene, dry	A
Perfluoropropane Gas	A

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Petrolatum (Vaseline)	A
Petroleum	A
Phenol (carbolic acid)	B
Phenol, 10% (carbolic acid)	B
Phosgene	D
Phosphine Gas	A
Phosphoric Acid (>40%)	D
Phosphoric Acid, crude	B
Phosphoric Acid, molten	C
Phosphorus	A ¹
Phosphorous Pentafluoride Gas	A
Phosphorus Oxychloride	D
Phosphorus Pentoxide	A
Phosphorus Trichloride	A ¹
Photographic Developer	A
Phthalic Acid	A
Phthalic Anhydride	A
Picric Acid	A
Pine Oil	A
Pineapple Juice	A
Plating Solutions, Arsenic	A
Plating Solutions, Antimony	A
Plating Solutions, Brass	A
Plating Solutions, Bronze	A
Plating Solutions, Cadmium	A
Plating Solutions, Chrome	D
Plating Solutions, Copper	D
Plating Solutions, Gold	C
Plating Solutions, Indium	C
Plating Solutions, Iron	C
Plating Solutions, Lead	C
Plating solutions, Nickel	C
Plating Solutions, Rhodium	D
Plating Solutions, Silver	A
Plating Solutions, Tin	C
Plating Solutions, Zinc	D

Chemical

Polyethylene Glycol	B
Polyvinyl Acetate (PVA glue)	A
Potassium Acetate	C
Potassium Bicarbonate	B
Potassium Bichromate	A
Potassium Bisulfate	B
Potassium Bisulfite	A
Potassium Bromate	B
Potassium Bromide	B
Potassium Carbonate (potash)	A
Potassium Carbonate, 50%	A
Potassium Chlorate	B
Potassium Chlorate, aqueous 30%	B
Potassium Chloride	A
Potassium Chromate, 30%	B
Potassium Cyanide	A
Potassium Cyanide, 30%	B
Potassium Dichromate	B
Potassium Diphosphate	A
Potassium Ferricyanide	B
Potassium Ferrocyanide	A
Potassium Ferrocyanide, 30%	B
Potassium Fluoride	A
Potassium Hydroxide	A
Potassium Hydroxide (Lye, caustic potash)	A
Potassium Hypochlorite	B
Potassium Iodide	A
Potassium Nitrate	B
Potassium Oxalate, 20%	B
Potassium Perchlorate	A
Potassium Permanganate	B
Potassium Persulfate	A
Potassium Phosphate	C
Potassium Sulfate	A
Potassium Sulfate, 10%	A
Potassium Sulfide	B

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Potassium Sulfite	A
Potassium Thiosulfate	C
Propane, gas	A
Propane, liquefied	A
Propionaldehyde	B
Propyl Acetate	A
Propyl Alcohol	A
Propylene	A
Propylene Dichloride	A
Propylene Glycol	B
Propylene Oxide	A
Pydraul® (hydraulic fluid)	A
Pyridine	A
Pyrogallol Acid (pyrogallol)	B
Pyrrrole	B
Quinine	A
Resorcinol (resorcin, m-Dihydroxybenzene)	D
Resins and Rosins	A
Road Tar	A
Roof Pitch	A
RP-1 Fuel	A
Rubber Solvents	A
Rum	A
Rust Inhibitors	A
Salad Dressings	A
Salad Oil	A
Salicylic Acid	B ¹
Salt Brine (NaCl saturated)	A ¹
Salt Solutions	A
Sea Water	C
Sewage	A
Shellac, bleached	A
Shellac, orange	A
Silane Gas	A
Silicone Oil	A
Silver Bromide	D

Chemical

Silver Chloride	D
Silver Nitrate	B
Soap Solutions (stearates)	A
Soaps	A
Soda Ash (sodium carbonate)	A
Sodium Acetate	B
Sodium Aluminate	A
Sodium Benzoate	D
Sodium Bicarbonate	A
Sodium Bisulfate, 10%	C
Sodium Bisulfite	B
Sodium Borate (Borax)	B
Sodium Bromide	C
Sodium Carbonate (soda ash)	A
Sodium Chlorate	B
Sodium Chloride	B
Sodium Chlorite	A
Sodium Chromate	B
Sodium Cyanate	D
Sodium Cyanide	B
Sodium Ferricyanide	A
Sodium Ferrocyanide	B
Sodium Fluoride	A
Sodium Hydrogen Sulfite	B
Sodium Hydrosulfide	B
Sodium Hydrosulfite	D
Sodium Hydroxide (Lye, caustic potash)	B
Sodium Hydroxide, 20%	B ¹
Sodium Hydroxide, 50%	B
Sodium Hydroxide, 80%	B
Sodium Hypochlorite, 5.25%	C
Sodium Hypochlorite, <20%	C
Sodium Hypochlorite, 100%	D
Sodium Hyposulfate	A
Sodium Metaphosphate	A
Sodium Metasilicate, cold	A

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Sodium Metasilicate, hot	A
Sodium Nitrate	B
Sodium Perborate	B
Sodium Peroxide, 10%	A
Sodium Phosphate, acid	A
Sodium Phosphate, alkaline	A
Sodium Phosphate, Dibasic	A
Sodium Phosphate, neutral	A
Sodium Phosphate, Tribasic	A
Sodium Polyphosphate	B
Sodium Silicate (water glass)	B
Sodium Sulfate	B
Sodium Sulfide	D
Sodium Sulfite	A
Sodium Sulfite, 10%	A
Sodium Tetraborate	A
Sodium Thiosulfate	B
Sorghum	A
Sour Crude Oil	A
Soy Sauce	A
Soybean Oil	A
Stannic Chloride	D
Stannic Fluoborate	A
Stannic Chloride	D
Stannous Chloride	A ¹
Starch, aqueous	A
Stearic Acid	A
Stoddard's Solvent (white spirit, mineral spirits)	A
Styrene	A
Succinic Acid	A
Succinic Acid Ester	A
Sucrose Solutions	A
Sugar Liquids	A
Sulfate Liquors	B
Sulfur	A
Sulfur Chloride	D

Chemical

Sulfur Dioxide, dry	D
Sulfur Dioxide, wet	B
Sulfuric Acid, <10%	B
Sulfuric Acid, 10-75%	D
Sulfuric Acid, 75-100%	D
Sulfuric Acid, cold concentrated	B
Sulfuric Acid, hot concentrated	C
Sulfurous Acid	B
Sulfuryl Chloride	D
Sugar Solution	A
Tall Oil (liquid rosin)	A
Tallow	A
Tannic Acid	A
Tannin	A
Tanning Liquors	A ¹
Tanning Oil	A
Tar and Tar Oil	A
Tartaric Acid	C
Tetrachloroethane, anhydrous	A
Tetrachloroethylene	A
Tetraethyl Lead	A
Tetrahydrofuran	A
Tetramethylene	B
Tetraphosphoric Acid	D
Thread Cutting Oils	A
Tin Ammonium Chloride	D
Tin Salts	D
Titanium Dioxide	B
Titanium Tetrachloride	B
Toluene (Toluol)	A
Tomato Juice	A
Transformer Oil	A
Transmission Fluid Type A	B
Tributyl Phosphate	A
Tricalcium Phosphate	B
Trichloroacetic Acid	D

Key to General Chemical Resistance [all data based on 72 ° (22 °C) unless noted] **Explanation of Footnotes 1** – Satisfactory to 120° F (48° C)
A = Excellent – No Effect **C = Fair - Moderate Effect, not recommended**
B= Good - Minor Effect, slight corrosion or discoloration **D = Severe Effect, not recommended for ANY use**

It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.

316L Stainless Steel Chemical Compatibility Chart

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Chemical

Trichloroacetic Acid, 2N	D
Trichlorobenzene	B
Trichloroethane	B
Trichloroethylene	B
Trichloropropane	A
Tricresylphosphate	B
Triethanolamine (TEA, TEOA, triethanol amine)	A
Triethylamine	A
Trimethyl Phosphate Gas	A
Trioctyl Phosphate	B
Trisodium Phosphate	B
Tung Oil (China wood oil)	A
Turpentine	A
Urea	B
Urea Formaldehyde	A
Urethane	A
Uric Acid	B
Urine	A
Varnish	A
Vaseline	A
Vegetable Juice	A
Vegetable Oil	A
Vinegar	A
Vinyl Acetate	B

Chemical

Vinyl Chloride	A
Water, Deionized (demineralized water)	A ¹
Water, Distilled	A
Water, Fresh	A
Water, Salt	B
Water, Sewage	A
Waxes	A
Weed Killers	A
Whey	A
Whiskey	A
White Liquor (pulp mill)	A
White Water (paper mill)	A
Wine Vinegar	A
Wines	A
Xenon Gas	A
Xylene (Xylol), dry	B
Yeast, liquid	A
Zinc Chloride	B
Zinc Hydrosulfite	A
Zinc Nitrate	A
Zinc Phosphate	B
Zinc Sulfate	B
Zinc Sulfate, 30%	A

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