

# Fluid Compatibility Table

	<i>Carbon Steel</i>	<i>304 Stainless</i>	<i>316 Stainless</i>	<i>Hastelloy C</i>	<i>EPDM</i>	<i>Viton®</i>	<i>Buna-N</i>	<i>Grafoil</i>	<i>Teflon®</i>
Acetaldehyde	C	A	A	A	B	D	C	A	A
Acetate Solvents	A	B	A	A		D	D	A	A
Acetic Acid, crude	C	B	A	A		D	D	A	A
Acetic Acid, pure	D	B	A	A		D	D	A	A
Acetic Acid, 10%	C	B	A	A	B	D	D	A	A
Acetic Acid, 80%	C	B	A	A	C	D	D	A	A
Acetic Anhydride	D	A	B	A	B	D	D	A	A
Acetone	A	A	A	A	A	D	D	A	A
Acetylene	A	A	A	A	A	A	A	A	A
Acrylonite	A	A	A	A	D	C	D	A	A
Alcohol, Amyl	B	A	A	B	A	B	C	A	A
Alcohol, Butyl	B	A	A	A	C	A	B	A	A
Alcohol, Diacetone	A	A	A	A	B	D	D	A	A
Alcohol, Ethyl	B	A	B	A	A	A	A	A	A
Alcohol, Isopropyl	B	A	B	B	A	A	C	A	A
Alcohol, Methyl	B	A	A	A	A	C	B	A	A
Alcohol, Propyl	B	A	A	A	A	A	B	A	A
Aluminum Chloride dry	C	D	C	B	A	A	A	A	A
Aluminum Fluoride	D	D	C	A	A	A	A	A	A
Aluminum Hydroxide	D	A	A	B	A	A	A	A	A
Aluminum Sulfate	D	C	B	A	A	A	A	A	A
Amines	B	A	A	B	B	D	D	A	A
Ammonia, Anhydrous Liquid	A	B	A	A	A	D	B	A	A
Ammonium Carbonate	B	A	B		A	A	D	A	A
Ammonium Chloride	D	A	C	B	A	A	A	A	A
Ammonium Nitrate	D	A	A	B	A	A	A	B	A
Ammonium Phosphate	D	A	B		A	D	A	A	A
Ammonium Phosphate Di-basic	D	A	B	B	A	A	A	A	A
Ammonium Phosphate Tri-basic	D	A	B	B	A	A	A	A	A
Ammonium Sulfate	C	D	B	B	A	D	A	A	A
Amyl Acetate	C	A	B	A	C	D	D	A	A

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Aniline	C	A	B	B	B	C	D	A	A
Arsenic Acid	D	A	B	B	A	A	A	A	A
Asphalt Emulsion	B	B	A	A	D	A	D	A	A
Asphalt Liquid	B	B	A	A	D	A	C	A	A
Barium Carbonate	B	A	B	A	A	A	B	A	A
Barium Chloride	C	D	B		A	A	A	A	A
Barium Hydroxide	C	C	B		A	A	A	A	A
Barium Sulfate	C	A	A		B	A	A	A	A
Barium Sulfide	C	A	B		A	A	A	A	A
Beet Sugar Liquors	B	A	A		A	A	A	A	A
Benzaldehyde	A	A	A	B	A	D	D	A	A
Benzene (Benzol)	B	A	B	B	D	A	D	A	A
Benzoic Acid	D	A	B	A	D	A	D	A	A
Borax (Sodium Borate)	C	A	A	A	A	A	B	A	A
Boric Acid	D	A	B	A	A	A	A	A	A
Butane	B	A	A	A	D	A	A	A	A
Butylene	A	B	A		D	A	B	A	A
Butyric Acid	D	B	B	A	B	B	D	A	A
Calcium Bisulfite	D	B	B	B	A	B	B	A	A
Calcium Carbonate	D	A	B	B	A	A	A	A	A
Calcium Chloride	C	A	B	A	A	A	A	A	A
Calcium Hydroxide	C	A	B	A	A	A	A	A	A
Calcium Sulfate	C	A	B	B	B	A	A	A	A
Carbonated Water	B	A	A		A	A	A	A	A
Carbon Bisulfide	B	A	B		D	A	D	A	A
Carbolic Acid									
Phenol	D	A	B		B	A	D	A	A
Chlorine Gas,dry	B	A	B	A	D	B	C	A	A
Chloroform,dry	B	A	A	B	D	A	D	A	A
Chlorosulfonic Acid,dry	B	D	B	A	D	D	D		A
Chromic Acid<50%	D	B	C	B	C	C	D	A	A
Citric Acid	D	A	B	A	A	A	A	A	A
Citrus Juices	D	A	B			A	A	A	A
Coffee Extracts, hot	C	A	A					A	A
Copper Cyanide		A	A		A	A	A	A	A

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Copper Nitrate	D	A	B		B	A	A	B	A
Copper Sulfate	D	B	B	A	A	A	A	A	A
Cresylic Acid	C	A	B		D	A	D	A	A
Cyclohexane	A	A	A	B	D	A	A	A	A
Dichloroethane		A	C		D		D	A	A
Diesel Oil Fuels	A	A	A		D	A	A	A	A
Diethylamine	A	A	A		B	D	B	A	A
Epsom Salts (MgSo4)	C	A	B			A	A	A	A
Ethane	C	A	B		D	A	A	A	A
Ethers	A	A	A		C	C	D	A	A
Ethyl Acetate	B	A	B	B	B	D	D	A	A
Ethyl Chloride, dry	B	A	A	B	C	B	C	A	B
Ethyl Chloride, wet	D	A	B	B	B	B	C	A	A
Ethylene Chloride		A	A	B	D	B	D	A	A
Ethylene Dichloride		A	B		C	A	D	A	A
Ethylene Glycol	B	A	B	A	A	A	A	A	A
Ethyl Sulfate		D	B		C	A	B	A	A
Fatty Acids	D	A	A	A	C	A	B	A	A
Ferric Nitrate	D	A	C	B	A	A	A	B	A
Ferric Sulfate	D	A	B		A	A	A	A	A
Ferrous Chloride	D	D	D	D	A	A	A	A	A
Ferrous Sulfate	D	A	B	B	A	A	A	A	A
Formaldehyde, cold	A	A	A	B	B	D	B		A
Formaldehyde, hot	D	A	C	B			B	A	A
Formic Acid, cold	D	A	B	A		B	D	A	A
Formic Acid, hot	D	A	B	B		A	D	A	A
Fruit Juices	D	A	A		A	A	A		A
Fuel Oil	B	A	A		D	A	A	A	A
Furfural	A	A	A	B	C	D	D	A	A
Gallic Acid 5%	D	A	B	B	B	A	B		A
Gasoline, Aviation	A	A	A	A		A	C	A	A
Gasoline, Leaded	A	A	A	A		A	C	A	A
Gasoline, Motor	A	A	A	A	D	A	C	A	A
Gasoline, Refined	B	A	A	A	D	A	C	A	A
Gasoline, Sour	B	A	A	A	D	A	C	A	A

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Gasoline, Unleaded	A	A	A	A		A	C	A	A
Gelatin	D	A	A		A	A	A	A	A
Glue	A	B	B	A	B	A	A	A	A
Glycerin (Glycerol)	C	A	A	A	A	A	A	A	A
Grease	A	A	A		D	A	A	A	A
Hexane	B	A	A	A	D	A	A	A	A
Hydraulic Oil, Petroleum Base	A	A	A		D	A	A	A	A
Hydrocyanic Acid	D	A	A	B	A	A	B		A
Hydrofluosilicic Acid	D	D	C		A	A	B	A	A
Hydrogen Gas, cold	B	A	A		A	A	A	A	A
Hydrogen Gas, hot	B	A	B	A	A	A	A	A	A
Hydrogen Sulfide, dry	B	C	A	B	A	A	C	A	A
Ink-Newsprint	D	A	A		B	A	A	A	A
Iodoform	B	C	A			A			A
Kerosene	B	A	A	A	D	A	A	A	A
Ketones	A	A	A		D	D	D	A	A
Laquer (and Solvent)	C	A	A		D	D	D	A	A
Lead Acetate	D	A	B		A	D	B	A	A
Lubricating Oil Petroleum Base	A	A	A		D	A	A	A	A
Magnesium Chloride	C	B	B	A	A	A	A	A	A
Magnesium Hydroxide	B	A	A	B	A	A	B	A	A
Magnesium Sulfate	B	B	A	A	A	A	A	A	A
Maleic Acid	B	A	B	A	D	A	B	A	A
Malic Acid	D	A	B		B	A	A	A	A
Mayonnaise	D	A	A			A	A	A	A
Mercuric Chloride	D	D	B	B	A	A	A	A	A
Mercuric Cyanide	D	A	A	B	A	A	A	A	A
Mercury	A	A	A	B	A	A	A	A	A
Methanol		A	A		A	D	A	A	A
Methyl Chloride	B	A	A		C	A	D	A	A
Methyl Ethyl Ketone	A	A	A	B	A	D	D	A	A

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Methylene Chloride	B	A	A	B	D	B	D	A	A
Milk & Milk Products	D	A	A		A	A	A	A	A
Molasses, crude	A	A	A			A	A	A	A
Mustard	B	A	A			A	A	A	A
Naptha	B	A	B	A	D	A	B	A	A
Napthalene	B	A	B	B	D	A	D	A	A
Nickel Chloride	D	A	B	A	A	A	A	A	A
Nickel Sulfate	D	A	B	B	A	A	A	A	A
Nitric Acid 10%	D	A	A			A	C	A	A
Nitric Acid 30%	D	A	A		B	A	C	B	A
Nitric Acid 100%	D	D	A		D	B	D	D	A
Nitrobenzene	B	A	A	B	A	B	D	A	A
Oleic Acid	C	A	B	B	D	B	C	A	A
Olive Oil	B	A	A		B	A	A	A	A
Palm Oil	C	A	B		D	A	B	A	A
Paraffin	B	A	A	A	D	A	A	A	A
Pentane	B	C	A		D	A	A	A	A
Phenol	D	A	A	A	D	A	D	A	A
Phosphoric Acid 10%	D	B	D		A	A	A	A	A
Phosphoric Acid 50% Cold	D	C	B		B	A	B	A	A
Phosphoric Acid 50% Hot	D	C	D		B	A	B	A	A
Phosphoric Acid 85% Cold	B	C	A			B	C	A	A
Phosphoric Acid 85% Hot	C	C	B				C	A	A
Picric Acid	D	A	B	B	B	B	C		A
Pine Oil	B	A	A		D	A	A	A	A
Potassium Bromide	D	A	A		B	A	A	A	A
Potassium Carbonate	B	A	B		B	A	A	A	A
Potassium Chlorate	B	A	B		B	A	A	C	A
Potassium Chloride	C	A	B	B	A	A	A	A	A
Potassium Cyanide	B	A	B	B	A	A	A	A	A

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Potassium Dichromate	C	A	B		B	A	A		A
Potassium Ferrocyanide	C	A	B			A	A	A	A
Potassium Nitrate	B	A	B	B	A	A	A	B	A
Potassium Permanganate	B	A	B	B	B	A	A		A
Potassium Sulfate	B	A	A		A	A	A	A	A
Potassium Sulfide	B	A	A	A	B	B	A	A	A
Propylene Glycol	B	B	B		B	A	A	A	A
Pyrolgallic Acid	B	A	B			A	A		A
Resins & Rosins	C	A	A			A	C	A	A
Salad Oil	C	A	B		B	A	A	A	A
Sea Water	D	A	B		A	A	A	A	A
Shellac	A	A	A				A	A	A
Silver Nitrate 10%	D	A	A		A	A	B	B	A
Soap Solutions (Stearates)	A	A	A		A	A	A	A	A
Sodium Acetate	C	A	B	B	A	D	B	A	A
Sodium Bicarbonate	C	A	B		A	A	A	A	A
Sodium Bisulfate 10%	D	A	A		A	A	A	A	A
Sodium Bisulfite 10%	D	A	A	B	A	A	A	A	A
Sodium Borate	C	A	B		B	A	A	A	A
Sodium Chlorate	C	A	B	B	B	A	A	B	A
Sodium Chloride	C	A	B	B	A	A	A	A	A
Sodium Chromate	B	A	A		B	A	A		A
Sodium Cyanide	B	A	A		A	A	A	A	A
Sodium Fluoride	D	C	B		B	A	A	A	A
Sodium Hydroxide 20% Cold	A	A	A		B	B	A	A	A
Sodium Nitrate	B	A	A	B	A	A	B		A
Sodium Peroxide	C	A	B	B	A	A	B	A	A
Sodium Silicate	B	A	B		A	A	A	A	A
Sodium Sulfate	B	A	A		A	A	A	A	A
Sodium Thiosulfate	B	A	B		A	A	B	A	A
Soybean Oil	C	A	A		C	A	A	A	A

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Starch	C	A	B		C	A	A	A	A
Stearic Acid	C	A	B	A	B	A	B	A	A
Styrene	A	A	A	A	D	B	D	A	A
Sugar Liquids	B	A	A		B	A	A	A	A
Sulfate, Black Liquor	C	C	B		B	C	C	A	A
Sulfate, Green Liquor	C	C	B			C	C	A	A
Sulfate, White Liquor	C	C	B			C	C	A	A
Sulfur Chlorides	D	D	D		D	A	D	A	A
Sulfur Dioxide, dry	B	A	A	A	A	D	D	A	A
Sulfur Trioxide, dry	B	A	B	B	B	A	D	D	A
Sulfuric Acid 0 to 77%	D	D	C			A	B	A	A
Sulfurous Acid	D	C	B	B	B	A	B	A	A
Tannic Acid (Tannin)	C	A	B	B	A	A	A	A	A
Tartaric Acid	D	A	A	B	B	A	A	A	A
Toluol (Toluene)	A	A	A	A	D	A	D	A	A
Tomato Juice	C	A	A			A	A	A	A
Trichlorethylene	B	A	B	A	D	A	C	A	A
Turpentine	B	A	B	A	D	A	A	A	A
Varnish	C	A	A	A	D	A	B	A	A
Vinegar	D	A	A	A	B	C	B	A	A
Water, Distilled	D	A	A	A	A	B	A	A	A
Water, Fresh	C	A	A	A	A	B	A	A	A
Whiskey & Wines	D	A	A	A	A	A	A	A	A
Xylene (Xylol), dry	B	A	A	A	D	A	D	A	A
Zinc Sulfate	D	A	B	A	A	A	A	A	A

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