

NOTE: The following data is obtained at a fluid temperature of +21°C (+70°F), higher temperatures may affect suitability.  
All the information should be treated as a general guide only and testing under actual service conditions is strongly recommended.

Key:

- A = Excellent
- B = Good
- C = No information available
- X = Unsuitable

Hose End Fitting Material

Chemical	PTFE	CS	304SS	316SS	Brass
Acetaldehyde	A	A	A	A	A
Acetic Acid, Glacial	A	C	B	B	C
Acetic Acid 30%	A	X	B	B	X
Acetic Anhydride	A	X	B	B	X
Acetone	A	A	A	A	A
Acetylene	A	C	A	A	B
Acrylonitrile	A	A	A	A	C
Alum, Ammonium or Potassium	A	X	B	B	X
Aluminium Acetate	A	C	A	A	X
Aluminium Bromide	A	X	B	B	X
Aluminium Chloride	A	X	B	B	X
Aluminium Fluoride	A	X	B	B	X
Aluminium Hydroxide	A	C	A	A	A
Aluminium Nitrate	A	X	A	A	C
Aluminium Salts	A	C	B	B	C
Aluminium Sulphate	A	X	X	B	X
Ammonia Anhydrous	A	A	A	A	C
Ammonia, Aqueous	A	C	A	A	X
Ammonium Carbonate	C	A	A	A	C
Ammonium Chloride	A	C	B	B	X
Ammonium Hydroxide	A	B	A	A	X
Ammonium Metaphosphate	A	A	A	A	C
Ammonium Nitrate	A	A	A	A	X
Ammonium Nitrite	C	C	A	A	C
Ammonium Persulphate	C	C	A	A	C
Ammonium Phosphate	A	X	B	A	C
Ammonium Sulphate	A	A	A	A	X
Ammonium Thiocyanate	A	A	A	A	C
Amyl Acetate	A	X	A	A	A
Amyl Alcohol	A	A	A	A	A
Amyl Chloride	A	C	A	A	C
Amyl Chloronaphthalene	A	C	A	A	C
Amyl Naphthalene	A	C	A	A	C
Aniline	A	B	A	A	X
Aniline Dyes	A	X	A	A	C
Aniline Hydrochloride	A	C	X	X	X
Animal Fats	A	A	A	A	C
Aqua Regia	A	C	X	X	C
Arsenic Acid	A	B	C	A	C
Askarel	C	A	A	A	A
Asphalt	A	A	A	A	B
Barium Carbonate	A	B	A	A	A
Barium Chloride	A	X	A	A	B
Barium Hydroxide	A	B	A	A	C
Barium Sulphate	A	A	A	A	B
Barium Sulphide	A	X	A	A	X
Beer	A	B	A	A	A
Beet Sugar Liquors	A	A	A	A	C
Benzene	A	A	A	A	A
Benzenesulphonic Acid	C	X	C	B	C
Benzaldehyde	A	A	C	C	C
Benzine	A	A	A	A	A
Benzyl Alcohol	A	A	A	A	C
Benzyl Benzoate	A	A	A	A	C
Benzyl Chloride	A	A	C	C	C
Bismuth Carbonate	A	A	A	A	C
Black Sulphate Liquor	A	A	A	A	C
Blast Furnace Gas	A	A	A	A	A
Borax	A	B	A	A	B
Bordeaux Mixture	A	C	A	A	C
Borac Acid	A	X	B	A	X
Bunker Oil	A	A	A	A	A
Butadiene	A	C	A	A	A
Butane	A	A	A	A	A
Butter Oil	A	A	A	A	A
Butyric Acid	A	X	A	A	B
Butyl Acetate	A	B	A	A	A
Butyl Alcohol	A	A	A	A	A
Butyl Amine	C	A	A	A	A
Butyl Carbitol	A	A	A	A	A
Butyl Stearate	A	A	A	A	A
Butyl Mercaptan	A	C	A	A	C

Chemical	PTFE	CS	304SS	316SS	Brass
Butyraldehyde	A	C	C	C	A
Calcium Acetate	A	A	A	A	A
Calcium Bisulphate	A	C	B	A	X
Calcium Bisulphite	A	C	A	A	C
Calcium Carbonate	A	A	A	A	A
Calcium Chlorate	A	C	B	A	C
Calcium Chloride	A	X	B	A	B
Calcium Hydroxide	A	X	X	A	B
Calcium Hypochlorite	A	C	X	B	X
Calcium Nitrate	A	A	A	A	A
Calcium Silicate	A	A	A	A	A
Calcium Sulphate	A	A	A	A	A
Calcium Sulphide	A	A	A	A	C
Cane Sugar Liquors	A	A	A	A	B
Carbolic Acid	A	X	A	A	X
Carbon Dioxide	A	A	A	A	A
Carbon Disulphide	C	B	A	A	B
Carbonic Acid	A	X	A	A	X
Carbon Monoxide	A	A	A	A	A
Carbon Tetrachloride	A	X	B	B	B
Castor Oil	A	A	A	A	A
Caustic Soda	A	B	A	A	X
Cellosolve, Acetate	A	A	A	A	C
Cellosolve, Butyl	A	A	A	A	C
Cellulube	A	A	A	A	A
Chlorine, Gaseous, Dry	A	B	X	X	B
Chlorine, Gaseous, Wet	A	X	X	X	X
Chlorine, Trifluoride	C	X	C	C	C
Chloroacetic Acid	A	X	X	X	B
Chlorobenzene	A	A	A	A	A
Chlorobromomethane	A	A	A	A	A
Chloroform	A	A	A	A	A
O-Chloronaphthalene	A	A	A	A	A
Chlorotoluene	A	A	A	A	A
Chromic Acid	A	X	X	B	X
Citric Acid	A	X	X	A	X
Cod Liver Oil	A	A	A	A	A
Coke Oven Gas	A	A	A	A	C
Copper Chloride	A	X	X	A	X
Copper Cyanide	A	C	A	A	X
Copper Sulphate	A	X	A	A	X
Corn Oil	A	A	A	A	A
Corn Syrup	A	A	A	A	C
Cottonseed Oil	A	A	A	A	A
Creosote	A	B	A	A	X
Cresol	A	B	A	A	C
Crude Wax	A	A	A	A	A
Cutting Oil	A	A	A	A	A
Cyclohexane	A	A	A	A	A
Cyclohexanone	A	C	A	A	C
Cymene	A	C	C	C	A
Decalin	A	C	C	C	A
Denatured Alcohol	A	A	A	A	A
Diacetone	A	A	A	A	A
Diacetone Alcohol	A	A	A	A	A
Dibenzyl Ether	A	A	A	A	A
Dibutyl Ether	A	A	A	A	A
Dibutyl Phthalate	A	A	A	A	A
Dibutyl Sebacate	A	C	C	C	A
Dichlorobenzene	A	C	A	A	A
Diesel Oil	A	A	A	A	A
Diethylamine	A	C	A	A	A
Diethyl Ether	A	A	A	A	A
Diethylene Glycol	A	A	A	A	A
Diethyl Phthalate	A	C	A	A	A
Diethyl Sebacate	A	C	A	A	A
Di-Isobutylene	C	C	A	A	A
Di-Isopropyl Ketone	A	C	A	A	A
Dimethyl Aniline	A	C	C	C	A
Dimethyl Formamide	C	A	A	A	C
Dimethyl Phthalate	A	C	C	C	A
Diocetyl Phthalate	A	A	A	A	A
Dioxane	A	A	A	A	A
Dipentene	A	A	A	A	A
Ethanolamine	A	A	A	A	A
Ethyl Acetate	A	A	A	A	A
Ethyl Acetoacetate	A	A	A	A	A
Ethyl Acrylate	C	A	A	A	C
Ethyl Alcohol	A	A	A	A	B
Ethyl Benzene	A	A	A	A	A
Ethyl Cellulose	A	A	A	A	A
Ethyl Chloride	A	B	A	A	B
Ethyl Ether	A	B	A	A	A
Ethyl Mercaptan	A	B	C	C	C
Ethyl Pentochlorobenzene	A	B	A	A	A
Ethyl Silicate	A	A	A	A	A
Ethylene Chloride	A	B	A	A	B
Ethylene Chlorohydrin	A	C	C	C	C
Ethylene Diamine	A	C	C	C	A
Ethylene Glycol	A	B	A	A	A
Fatty Acids	A	C	A	A	C
Ferric Chloride	A	X	X	X	X
Ferric Nitrate	A	X	A	A	C

# Chemical Resistance

Chemical	PTFE	CS	304SS	316SS	Brass	Chemical	PTFE	CS	304SS	316SS	Brass
Ferric Sulphate	A	X	A	A	X	Oxalic Acid	A	X	B	A	X
Ferrous Chloride	A	X	A	B	B	Oxygen, Gaseous	A	A	A	A	A
Ferrous Nitrate	A	C	A	A	C	Ozone	A	A	A	A	A
Ferrous Sulphate	A	X	A	A	B	Paint	A	C	A	A	A
Fluoroboric Acid	A	C	A	A	C	Palmitic Acid	A	A	B	A	X
Formaldehyde	A	C	A	A	A	Peanut Oil	A	A	A	A	A
Formic Acid	A	X	B	A	B	Perchloric Acid	A	C	B	A	C
Freon 12	B	X	A	A	C	Perchloroethylene	A	A	A	A	A
Freon 114	B	X	A	A	C	Petroleum	A	A	A	A	A
Fuel Oil	A	B	B	B	A	Phenol	A	X	A	A	X
Fumaric Acid	C	C	A	A	C	Phorone	A	A	A	A	A
Furan Furfuran	A	A	A	A	A	Picric Acid	A	X	A	A	X
Furfural	A	B	A	A	A	Pinene	A	A	A	A	A
Gallic Acid	A	X	A	A	C	Pine Oil	A	A	A	A	C
Gasoline	A	B	A	A	A	Plating Solution, Chrome	A	C	X	X	C
Glauber's Salt	C	A	A	A	C	Potassium Acetate	A	C	A	A	C
Glucose	A	A	A	A	A	Potassium Chloride	A	B	B	A	X
Glue	A	B	A	A	X	Potassium Cyanide	A	B	A	A	X
Glycerin	A	B	A	A	A	Potassium Dichromate	A	C	A	A	C
Glycols	A	A	A	A	A	Potassium Hydroxide, 30%	A	X	A	A	X
Green Sulphate Liquor	A	A	A	A	C	Potassium Nitrate	A	X	A	A	B
n-Hexaldehyde	A	A	A	A	A	Potassium Sulphate	A	B	A	A	B
Hexane	A	A	A	A	A	Propane	A	A	A	A	A
Hexene	A	A	A	A	A	Propyl Acetate	C	A	A	A	A
Hexyl Alcohol	A	A	A	A	B	Propyl Alcohol	A	A	A	A	B
Hydraulic Oil, Petroleum	A	A	A	A	A	Pyridine, 50%	A	C	A	A	A
Hydrochloric Acid, 15%	A	X	X	X	X	Red Oil	A	B	B	A	B
Hydrochloric Acid, 37%	A	X	X	X	X	Salicylic Acid	C	C	A	A	C
Hydrocyanic Acid	A	X	A	A	X	Salt Water	A	B	A	A	X
Hydrofluoric Acid, Concentrated	A	X	X	X	X	Sewage	A	X	A	A	A
Hydrofluosilicic Acid	A	C	X	X	X	Silicone Greases	C	A	A	A	A
Hydrogen, Gaseous	A	A	A	A	A	Silicone Oils	C	A	A	A	A
Hydrogen Peroxide, 70%	A	X	B	A	X	Silver Nitrate	A	B	A	A	B
Hydrogen Sulphate, Gaseous	A	X	B	A	X	Skydrol 500 Et 7000	A	A	A	A	C
Hydroquinone	C	C	A	A	C	Soap Solutions	A	A	A	A	A
Isobutyl Alcohol	A	A	A	A	B	Soda Ash	C	A	A	A	B
Iso Octane	A	A	A	A	A	Sodium Acetate	A	A	A	A	A
Isopropyl Acetate	A	A	A	A	A	Sodium Bicarbonate	A	B	A	A	B
Isopropyl Alcohol	A	A	A	A	B	Sodium Bisulphate	A	A	A	A	C
Isopropyl Ether	A	A	A	A	A	Sodium Borate	A	A	A	A	C
Kerosene	A	A	A	A	A	Sodium Chloride	A	B	B	A	X
Lacquers	A	X	X	A	A	Sodium Cyanide	A	B	A	A	X
Lacquer Solvents	A	X	X	A	A	Sodium Hydroxide, 40%	A	B	A	A	X
Lactic Acid	A	X	B	A	B	Sodium Hypochlorite	A	X	X	B	X
Lard	A	A	A	A	X	Sodium Metaphosphate	A	X	A	A	X
Lead Acetate	A	B	A	A	A	Sodium Nitrate	A	A	B	B	B
Lead Nitrate	C	A	A	A	C	Sodium Perborate	A	X	A	A	X
Lime Bleach	C	X	B	A	C	Sodium Peroxide	A	X	A	A	X
Linoleic Acid	A	C	C	C	C	Sodium Phosphate	A	C	A	A	X
Linseed Oil	A	B	A	A	B	Sodium Thiosulphate	A	X	A	A	X
Lubricating Oils, Petroleum	A	A	A	A	A	Soybean Oil	A	A	A	A	C
Magnesium Chloride	A	X	B	A	B	Stannic Chloride	A	X	C	C	X
Magnesium Hydroxide	A	A	A	A	C	Steam	A	A	A	A	B
Magnesium Sulphate	A	B	A	A	A	Stearic Acid	A	X	B	A	X
Malic Acid	A	B	B	A	C	Stoddard Solvent	A	B	A	A	A
Mercuric Chloride	A	X	A	A	X	Styrene	A	B	C	B	B
Mercury	A	A	A	A	X	Sucrose Solution	A	A	A	A	C
Mesityl Oxide	A	A	A	A	A	Sulphur, 200°F	A	B	B	A	X
Methyl Acetate	A	A	A	A	A	Sulphur Chloride	A	X	X	B	X
Methyl Acrylate	C	A	A	A	A	Sulphur Dioxide	A	B	A	A	A
Methyl Alcohol	A	A	A	A	B	Sulphur Trioxide	A	B	B	B	C
Methyl Bromide	A	A	A	A	A	Sulphuric Acid, 10%	A	X	X	B	X
Methyl Butyl Ketone	C	A	A	A	A	Sulphuric Acid, 98%	A	B	X	B	X
Methyl Chloride	A	A	A	A	A	Sulphuric Acid, Fuming	A	B	C	A	X
Methylene Chloride	A	A	A	A	A	Sulphuric Acid, 10%	A	X	B	A	X
Methyl Ethyl Ketone (MEK)	A	A	A	A	A	Sulphuric Acid, 75%	A	X	X	B	X
Methyl Formate	A	A	A	A	A	Tannic Acid, 10%	A	B	A	A	X
Methyl Isobutyl Ketone	A	A	A	A	A	Tar, Bituminous	A	A	A	A	B
Methyl Methacrylate	A	A	A	A	C	Tartaric Acid	A	C	B	B	C
Methyl Salicylate	A	A	A	A	A	Terpineol	A	C	C	C	C
Milk	A	X	A	A	X	Titanium Tetrachloride	C	A	B	B	X
Mineral Oil	A	A	A	A	A	Toluene	A	A	A	A	A
Monochlorobenzene	A	A	A	A	A	Toluene Diisocyanate	C	C	C	C	C
Monoethanolamine	C	A	A	A	A	Transformer oil	A	A	A	A	A
Naphtha	A	B	A	A	A	Transmission Fluid, Type A	A	A	A	A	A
Naphthalene	A	C	A	A	C	Tributoxyethyl Phosphate	A	A	C	C	C
Naphthenic Acid	A	C	B	A	C	Tributyl Phosphate	A	A	C	C	C
Natural Gas	A	A	A	A	B	Trichloroethylene	A	X	C	A	A
Nickel Acetate	A	A	A	A	A	Tricresyl Phosphate	A	A	C	B	C
Nickel Chloride	A	X	B	B	X	Tung Oil	A	A	A	A	A
Nickel Sulphate	A	C	B	A	X	Turpentine	A	C	A	A	B
Niter Cake	C	X	B	A	C	Urea Solution, 50%	A	A	A	A	C
Nitric Acid, All Concentrations	A	X	B	B	X	Varnish	C	B	A	A	B
Nitric Acid, Red Fuming	A	X	B	B	X	Vegetable Oils	A	A	A	A	C
Nitrobenzene	A	A	A	A	A	Versilube	A	A	A	A	A
Nitroethane	A	C	A	A	A	Vinegar	A	X	B	A	X
Nitrogen, Gaseous	A	A	A	A	A	Vinyl Chloride	A	B	A	A	X
Nitrogen Tetroxide	C	C	C	B	C	Water	A	B	A	A	A
n-Octane	C	A	A	A	A	Whiskey, Wines	A	X	B	A	X
Octyl Alcohol	A	A	A	A	B	Xylene	A	B	B	B	C
Oil, SAE	A	A	A	A	A	Zinc Acetate	A	A	A	A	A
Oleic Acid	A	B	B	A	B	Zinc Chloride	A	X	B	A	X
Olive Oil	A	B	B	A	B	Zinc Sulphate	A	X	B	A	X