

Chemical resistance table

All the information should be treated as a general guide only and testing under actual service conditions is strongly recommended

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

CHEMICAL	PTFE	304SS	316SS
Calcium Hydroxide	E	U	E
Calcium Hypochlorite	E	U	G
Calcium Nitrate	E	E	E
Calcium Silicate	E	E	E
Calcium Sulphate	E	E	E
Calcium Sulphide	E	E	E
Cane Sugar Liquors	E	E	E
Carbolic Acid	E	E	E
Carbon Dioxide	E	E	E
Carbon Disulphide	N	E	E
Carbonic Acid	E	E	E
Carbon Monoxide	E	E	E
Carbon Tetrachloride	E	G	G
Castor Oil	E	E	E
Caustic Soda	E	E	E
Cellosolve Acetate	E	E	E
Cellosolve Butyl	E	E	E
Cellulose	E	E	E
Chlorine, Gaseous Dry	E	U	U
Chlorine, Gaseous Wet	E	U	U
Chlorine, Trifluoride	N	N	N
Chloroacetic Acid	E	U	U
Chlorobenzene	E	E	E
Chlorobromometane	E	E	E
Chloroform	E	E	E
O-Chloronaphthalene	E	E	E
Chlorotoluene	E	E	E
Chromic Acid	E	U	G
Citric Acid	E	U	E
Cod Liver Oil	E	E	E
Coke Oven Gas	E	E	E
Copper Chloride	E	U	E
Copper Cyanide	E	E	E
Copper Sulphate	E	E	E
Corn Oil	E	E	E
Corn Syrup	E	E	E
Cottonseed Oil	E	E	E
Creosote	E	E	E
Cresol	E	E	E
Crude Wax	E	E	E
Cutting Oil	E	E	E
Cyclohexane	E	E	E
Cyclohexanone	E	E	E
Cymene	E	N	N
Decalin	E	N	N
Denatured Alcohol	E	E	E
Diacetone	E	E	E
Diacetone Alcohol	E	E	E
Dibenzyl Ether	E	E	E
Dibutyl Ether	E	E	E
Dibutyl Phthalate	E	E	E
Dibutyl Sebacate	E	N	N
Dichloro Benzene	E	E	E
Diesel Oil	E	E	E
Diethylamine	E	E	E
Diethyl Ether	E	E	E
Diethylene Glycol	E	E	E
Diethyl Phthalate	E	E	E
Diethyl Sebacate	E	E	E
D-Isobutylene	N	E	E
D-Isopropyl Khetone	E	E	E
Dimethyl Aniline	E	N	N
Dimethyl Formamide	N	E	E
Dimethyl Phthalate	E	N	N
Dioctyl Phthalate	E	E	E
Dioxane	E	E	E
Dipentene	E	E	E
Ethanolamine	E	E	E
Ethyl Acetate	E	E	E
Ethyl Acetoacetate	E	E	E
Ethyl Acrylate	N	E	E
Ethyl Alcohol	E	E	E
Ethyl Benzene	E	E	E
Ethyl Cellulose	E	E	E
Ethyl Chloride	E	E	E
Ethyl Ether	E	E	E
Ethyl Mercaptan	E	N	N
Ethyl Pentochlorobenzene	E	E	E
Ethyl Silicate	E	E	E
Ethylene Chloride	E	E	E
Ethylene Chlorohydrin	E	N	N
Ethylene Diamine	E	N	N
Ethylene Glycol	E	E	E
Fatty Acides	E	E	E
Ferric Chloride	E	U	U
Ferric Nitrate	E	E	E
Ferric Sulphate	E	E	E
Ferrous Chloride	E	E	G
Ferrous Nitrate	E	E	E
Ferrous Sulphate	E	E	E
Fluoroboric Acid	E	E	E
Formaldehyde	E	E	E
Formic Acid	E	G	E

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

Key:
E=Excellent
G=Good
N=No information available
U=Unsuitable