

**GENERAL SPECIFICATIONS:**

Within normal use temperatures, Fluoroplastics are attacked by few chemicals.
Here below exceptions and chemical resistance table.

**RATING
CODES****E** = Excellent **G** = Good **N** = Not Tested **U** = Unsuitable**DO NOT USE FLUOROPOLYMERS WITH:**

- Alkali metals
(e.g. elementalsodium, potassium, lithium);
- Potent oxidizers,
- Fluorine (F₂) and related compounds
(like Chlorine Trifluoride - ClF₃)
- 80% Sodium Hydroxide (NaOH)
- Potassium Hydroxide (KOH),
- Metal hydrides such as Diborane (B₂H₆),
- Aluminium Chloride,
- Ammonia (NH₃),
- Amines (R-NH₂)
- Imines (R=NH);
- 70% Nitric Acid (at temperatures near
the suggested service limit).

CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Acetaldehyde	E	E	E
Acetamide	E	E	E
Acetic acid 10%	E	G	E
Acetic acid 30%	E	G	E
Acetic acid 50%	E	G	E
Acetic acid glacial	E	G	E
Acetic anhydride	E	G	G
Acetone	E	E	E
Acetone cyanohydrin	E	E	E
Acetonitrile	E	E	E
Acetophenone	E	G	G
Acetyl acetone	E	E	E
Acetyl chloride	E	G	G
Acetylene	E	E	E
Acetylene dichloride	E	G	G
Acetylene tetra chloride	E	G	G
Acrylonitrile	E	E	E
Adipic acid	E	E	E
Aliphatic alcohol	E	E	E
Aromatic alcohol	E	E	E
Allyl alcohol	E	E	E
Allyl bromide	E	G	G
Allyl chloride	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



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CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Aluminium sulphate	E	U	G
Ammonium alum	E	G	G
Ammonium carbonate	G	E	E
Ammonium chloride	E	G	G
Ammonium hydroxide	E	E	E
Ammonium metaphosphate	E	E	E
Ammonium nitrate	E	E	E
Ammonium nitrite	G	E	E
Ammonium persulphate	G	E	E
Ammonium phosphate	E	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
Anhydrous ammonia	G	E	E
Aniline	E	E	E
Aniline dyes	E	E	E
Aniline hydrochloride	E	U	U
Animal fats	E	E	E
Aqua regia	A	U	U
Aqueous ammonia	G	E	E
Arsenic acid	E	N	E
Askarel	G	E	E
Asphalt	E	E	E
Aviation gasoline	E	E	E
Barium carbonate	E	E	E
Barium chloride	E	E	E
Barium hydroxide	E	E	E
Barium sulphate	E	E	E

CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Barium sulphide	E	E	E
Beer	E	E	E
Beet sugar liquors	E	E	E
Benzene	E	E	E
Benzene sulphonic acid	G	N	G
Benzaldehyde	E	N	E
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
Boric acid	E	G	E
Brine	E	E	E
Bromine	E	G	G
Bromobenzene	E	E	E
Bunker oil	E	E	E
Butadiene	E	E	E
Butane	E	E	E
Butanol	E	E	E
Butter oil	E	E	E
Butyl acetate	E	E	E
Butyl alcohol	E	E	E
Butyl amine	G	E	E
Butyl carbitol	E	E	E
Butyl cellosolve	E	E	E
Butyl stearate	E	E	E
Butyl mercaptan	E	E	E
Butyraldehyde	E	E	E
Butyric acid	E	E	E
Cadmium acetate	E	E	E
Calcium acetate	E	E	E
Calcium bisulphate	E	G	E



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CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Calcium bisulphite	E	E	E
Calcium carbonate	E	E	E
Calcium chlorate	E	G	E
Calcium chloride	E	G	E
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
Caprylic acid	E	E	E
Carbitol	E	G	G
Carbolic acid	E	E	E
Carbon dioxide	E	E	E
Carbon disulphide	G	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
Cellulube	E	E	E
Chloracetone	E	U	U
Chlorine gas (dry)	E	U	U
Chlorine gas (wet)	E	U	U
Chlorine trifluoride	U	N	N
Chloroacetic acid	E	U	U
Chlorobenzene	E	E	E
Chlorobromo-methane	E	G	G
Chlorobutadiene	E	G	G
Chlorobutane	E	G	G
Chloroform	E	G	G
Chlorotoluene	E	G	G
Chromic acid	E	U	G
Chrome plating solution	E	U	U

CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
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
Dichlorobenzene	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
Diisobutylene	E	E	E
Diisopropyl ketone	E	E	E
Dimethyl aniline	E	N	N
Dimethyl formamide	G	E	E
Dimethyl phthalate	E	N	N



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CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Diethyl 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	G	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 acids	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
Fluorine	U	G	G
Fluoroboric acid	E	E	E
Formaldehyde	E	E	E
Formic acid	E	G	E
Freon 11 to 13	G	E	E
Freon 112 to 115	G	E	E
Freon 21 and 31	G	E	E
Freon 218 and 318	G	E	E

CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Fuel oil	E	G	G
Fumaric acid	G	E	E
Furan furfuran	E	E	E
Furfural	E	E	E
Gallic acid	E	E	E
Gasoline	E	E	E
Glauber's salt	G	E	E
Gluconic acid	E	E	E
Glucose	E	E	E
Glue	E	E	E
Glycerin	E	E	E
Glycols	E	E	E
Grease	E	E	E
Green sulphate liquor	E	E	E
Halowax oil	E	N	N
N-Hexaldehyde	E	E	E
Hexane	E	E	E
Hexene	E	E	E
Hexyl alcohol	E	E	E
Hydraulic oil (petroleum)	E	E	E
Hydrobromic acid	E	N	N
Hydrochloric acid 15%	E	U	U
Hydrochloric acid 37%	E	U	U
Hydrocyanic acid	E	E	E
Hydrofluoric acid (concentrated)	E	U	U
Hydrofluosilicic acid	E	U	U
Hydrogen gas	E	E	E
Hydrogen peroxide 10%	E	G	E
Hydrogen peroxide 70%	E	G	E
Hydrogen sulphate gas	E	G	E



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CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Hydrogen sulphide	E	G	E
Hydroquinone	G	E	E
Ink oil (linsed oil base)	E	E	E
Iodine	E	N	N
Iron acetate	E	E	E
Isobutane	E	E	E
Isobutanol	E	E	E
Isobutyl acetate	E	E	E
Isobutyl alcohol	E	E	E
Isobutylene	E	E	E
Iso octane	E	E	E
Isocyanate	E	E	E
Isopropyl acetate	E	E	E
Isopropyl alcohol	E	E	E
Isopropyl ether	E	E	E
Jet fuels (JP1 to JP6)	E	E	E
Kerosene	E	E	E
Ketone	E	E	E
Lacquers	E	U	E
Lacquer solvents	E	U	E
Lactic acid	E	G	E
Lard	E	E	E
Lauryl alcohol	E	E	E
Lead acetate	E	E	E
Lead nitrate	G	E	E
Lead sulphate	E	E	E
Ligroin	E	E	E
Lime bleach	G	G	E
Linoleic acid	E	N	N
Linseed oil	E	E	E
Lubricating oils (petroleum)	E	E	E
Magnesium acetate	E	E	E
Magnesium chloride	E	G	E
Magnesium hydroxide	E	E	E

CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Magnesium sulphate	E	E	E
Malic acid	E	G	E
Manganese sulphate	E	E	E
Mercuric chloride	E	G	E
Mercury	E	E	E
Mesityl oxide	E	E	E
Methane	E	E	E
Methyl acetate	E	E	E
Methyl acrylate	G	E	E
Methyl alcohol	E	E	E
Methyl bromide	E	E	E
Methyl butyl ketone	G	E	E
Methyl chloride	E	E	E
Methylene chloride	E	E	E
Methyl ethyl ketone (Mek)	E	E	E
Methyl formate	E	E	E
Methyl Isobutyl ketone	E	E	E
Methyl methacrylate	E	E	E
Methyl salicylate	E	E	E
Milk	E	E	E
Mineral oil	E	E	E
Monochlorobenzene	E	E	E
Monoethanolamine	G	E	E
Naphtha	E	E	E
Naphthalene	E	E	E
Naphthenic acid	E	G	E
Natural gas	E	E	E
Nickel acetate	E	E	E
Nickel chloride	E	G	G
Nickel sulphate	E	G	E
Niter cake	E	G	E
Nitric acid (all concentrations)	E	G	G
Nitric acid (red fuming)	E	G	G
Nitrobenzene	E	E	E



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CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Nitroethane	E	E	E
Nitrogen gas	E	E	E
Nitrogen tetroxide	G	N	G
Nitropropane	E	E	E
N-Octane	G	E	E
Octanol	E	E	E
Octyl acetate	E	E	E
Octyl alcohol	E	E	E
Oil (SAE)	E	E	E
Oleic acid	E	G	E
Olive Oil	E	G	E
Oxalic acid	E	G	E
Oxygen gas	E	E	E
Ozone	E	E	E
Paint	E	E	E
Palm oil	E	G	E
Palmitic acid	E	G	E
PAO Synthetic Lubricant	E	E	E
Paraffin wax	E	E	E
Peanut oil	E	E	E
Peracetic acid 40%	E	G	G
Perchloric acid	E	G	E
Perchloroethylene	E	E	E
Petroleum	E	E	E
Phenol	E	E	E
Phorone	E	E	E
Phosphoric acid	E	E	E
Picric acid	E	E	E
Pinene	E	E	E
Pine Oil	E	E	E
Piperidine	E	E	E
Potassium acetate	E	E	E
Potassium chloride	E	G	E
Potassium cyanide	E	E	E

CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Potassium dichromate	E	E	E
Potassium hydroxide 30%	E	E	E
Potassium nitrate	E	E	E
Potassium Sulphate	E	E	E
Propane	E	E	E
Propanediol	E	E	E
Propyl acetate	G	E	E
Propyl alcohol	E	E	E
Pyridine 50%	E	E	E
Red oil	E	G	E
Salicylic acid	G	E	E
Salt water	E	E	E
Sewage	E	E	E
Silicone greases	G	E	E
Silicone oils	G	E	E
Silver nitrate	E	E	E
Skydrol 500 & 7000	E	E	E
Soap solutions	E	E	E
Soda ash	G	E	E
Sodium acetate	E	E	E
Sodium bicarbonate	E	E	E
Sodium bisulphate	E	E	E
Sodium borate	E	E	E
Sodium chloride	E	G	E
Sodium cyanide	E	E	E
Sodium hydroxide 40%	E	E	E
Sodium hypochlorite	E	U	G
Sodium metaphosphate	E	E	E
Sodium nitrate	E	G	G
Sodium perborate	E	E	E
Sodium peroxide	E	E	E
Sodium phosphate	E	E	E



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CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Sodium thiosulphate	E	E	E
Soybean oil	E	E	E
Stannic chloride	E	N	N
Steam	E	E	E
Stearic acid	E	G	E
Stoddard solvent	E	E	E
Styrene	E	N	G
Sucrose solution	E	E	E
Sulphur (100°C)	E	G	E
Sulphur chloride	E	U	G
Sulphur dioxide	E	E	E
Sulphur trioxide	E	G	G
Sulphuric acid 10%	E	U	G
Sulphuric acid 98%	E	U	G
Sulphuric acid (Fuming)	E	N	E
Sulphuric acid 75%	E	U	G
Tannic acid 10%	E	E	E
Tar	E	E	E
Tartaric acid	E	G	G
Terpineol	E	N	N
Titanium Tetrachloride	G	G	G
Toluene	E	E	E
Toluene diisocyanate	G	N	N
Transformer oil	E	E	E
Transmission fluid	E	E	E
Tributoxyethyl phosphate	E	N	N
Tributyl phosphate	E	N	N
Trichloroethylene	E	N	E
Trycresyl phosphate	E	N	G
Tung oil	E	E	E
Turpentine	E	E	E
Urea solution 50%	E	E	E
Varnish	G	E	E
Vegetable oils	E	E	E

CHEMICAL	PTFE - PFA - FEP	AISI 304L	AISI 316
Versilube	E	E	E
Vinegar	E	G	E
Vinyl chloride	E	E	E
Whiskey	E	G	E
Wines	E	G	E
Xylene	E	G	G
Zinc acetate	E	E	E
Zinc chloride	E	G	E
Zinc sulphate	E	G	E



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