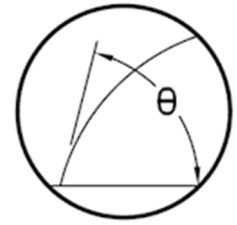


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Spinneret Tubing Selection

PTFE and FEP are similar and closely related fluoropolymers. At times, it is mistaken that PTFE is the only fluoropolymer, when FEP is also a fluoropolymer. Though all of the fluoropolymers can be considered in the same family, they vary in regard to thermal and mechanical properties. PTFE is semi-clear while FEP is translucent. PTFE is somewhat more flexible. Both PTFE and FEP have outstanding chemical resistance. See list of chemicals that are compatible with PTFE and FEP in later section below.

ramé-hart PTFE and FEP Tubing Specifications

Specification	PTFE Tubing	FEP Tubing
Material	100% virgin grade high performance Teflon® PTFE (polytetrafluoroethylene)	100% virgin grade high performance FEP (fluorinated ethylene propylene)
Color	Semi-clear	Clear
Durometer Hardness Rating	60D	60D
ID (Inside Diameter)	1.6mm	2mm
OD (Outside Diameter)	3.2mm	4mm
Bend Radius	25mm	38mm
Temperature Rating	-257° to 260° C	-245° to 260° C
Maximum Pressure	20 bar (290 psi)	31.7 bar (460 psi)
Autoclavable	Yes	Yes
RoHS 3 (2015/863/EU) Compliant	Yes	Yes
REACH (EC 1907/2006) (06/25/2020, 209 SVHC) Compliant	Yes	Yes
Country of Origin	USA	USA

Chemical Compatibility of ramé-hart PTFE and FEP Tubing

ramé-hart PTFE and FEP Tubing are resistant to virtually all chemicals. The list below details materials that are compatible with ramé-hart PTFE and FEP Tubing. At the end is a short list of the few chemicals that are not compatible.

Chemical	
Acetaldehyde <200°F (93°C)	Acetate Solvents
Acetic Acid <40% <200°F (93°C)	Acetic Acid <5% <200°F (93°C)
Acetic Acid >40% <200°F (93°C)	Acetic Acid Vapours
Acetic Acid-Glacial (100%) <250°F (121°C)	Acetic Anhydride <200°F (93°C)
Aceto-acetic ester	Acetone <200°F (93°C)
Acetophenone, pure	Acetyl salicylic acid
Acetylene	Acetylene <250°F (121°C)
Acid fumes	Acrylic Acid <150 (66°C)
Acrylonitrile <200°F (93°C)	Acrylonitrile, pure
Adipic Acid <150°F (66°C)	Alanine, pure
Aliphatic esters	Alkyl chlorides
Allyl Alcohol <200°F (93°C)	Allyl Chloride <200°F (93°C)
Alum Solution <10% 70°F (21°C)	Alum Solution >10%
Aluminium Chloride <200°F (93°C)	Aluminium Hydrate, pure
Aluminium Hydroxide, pure	Aluminium Sulphate <50% <200°F (93°C)
Aluminium sulphate	Aluminium Trihydrate, pure
Amine (Services) <200°F (93°C)	Amino Benzene Sulphuric Acid <200°F (93°C)
Amino Benzoic Acid <200°F (93°C)	Ammonia Anhydrous <300°F (149°C)
Ammonia, Aqua <200°F (93°C)	Ammonia, pure
Ammonium Salts, pure	Ammonium Bi-fluoride <150°F (66°C)
Ammonium Carbamate <150°F (66°C)	Ammonium Carbonate <200°F (93°C)
Ammonium Glycolate, pure	Ammonium Hydroxide <200°F (93°C)
Ammonium Nitrate <200°F (93°C)	Ammonium Oxalate, pure
Ammonium Phosphates <40% <200°F (93°C)	Ammonium Stearate
Ammonium Sulphate <200°F (93°C)	Amyl Alcohol <200°F (93°C)
Amyl Chloride, pure	Aniline <400°F (204°C)
Aniline Dyes <400°F (204°C)	Antimony trichloride
Aqua Regia <150°F (66°C)	Aroclor 1248 <350°F (177°C)
Aroclor 1248 >350°F (177°C)	Aromatic solvents
Arsenic Acid <200°F (93°C)	Arsenic Trioxide <200°F (93°C)
Ascorbic acid	Ascorbic Acid 70°F (21°C)
Ash Slurry	Asphalt-Emulsified
Barium Chloride <60% <200°F (93°C)	Barium Hydroxide <40% <200°F (93°C)

Barium Nitrate <50% <200°F (93°C)	Barium Sulphate <10% <200°F (93°C)
Beer	Benzaldehyde, pure
Benzenamine, pure	Benzene (Benzol) <200°F (93°C)
Benzene Sulfonic Acid 70°F (21°C)	Benzoic acid
Benzoic Acid <200°F (93°C)	Benzyl Acetate, pure
Benzyl Alcohol, pure	Black Liquor, Sulphate <50%
Black Liquor, Sulphate >50%	Boiler Feed Water
Bonderite Solution	Boric Acid <50% <300°F (149°C)
Brine <200°F (93°C)	Brines, saturated
Bromide (K) solution	Bromine (dry) 100% <150°F (66°C)
Bromine (wet) <200°F (93°C)	Bromoform, pure
Bunker "C" Fuel Oil	Butadiene <200°F (93°C)
Butane (gas) <300°F (149°C)	Butane (liquid) <300°F (149°C)
Butyl Acetate <300°F (149°C)	Butyl Alcohol <200°F (93°C)
Butyl Chloride, pure	Butyl Citrate, pure
Butylaldehyde <200°F (93°C)	Butyric Acid <200°F (93°C)
Butyric Acid, pure	Calcium Bi-sulphite <250°F (121°C)
Calcium Carbonate <200°F (93°C)	Calcium Chloride <200°F (93°C)
Calcium Hydroxide <50% <200°F (93°C)	Calcium Hypochlorite 70°F (21°C)
Calcium Nitrate <40% <200°F (93°C)	Calcium Phosphate <10% <200°F (93°C)
Calcium Stearate <10% <200°F (93°C)	Calcium Sulphate <10% <200°F (93°C)
Cane Sugar <20%	Caprolactam
Carbazole, pure	Carbon Dioxide (gas)
Carbon Dioxide (liquid)	Carbon Disulphide, pure
Carbon Monoxide	Carbon Tetrachloride 100% <200°F (93°C)
Carbonic acid	Carbonic Acid <10% <200°F (93°C)
Castor Oil	Caustic soda & potash
Cedarwood Oil, pure	Cellosolve® Acetate, pure
Cellulose paint	Chlorate of Na, K, Ba
Chlorides of Na, K, Ba	Chlorine (wet) <125°F (52°C)
Chlorine Dioxide <125°F (52°C)	Chlorine, Anhydrous <125°F (52°C)
Chlorine, dry	Chlorine, wet
Chloroacetic acid	Chloroacetic Acid <90% <150°F (66°C)
Chloroacetic Acid >90% <150°F (66°C)	Chlorobenzene <90% <150°F (66°C)
Chlorobenzene >90% <150°F (66°C)	Chloroform 100% 70°F (21°C)
Chloroform <200°F (93°C)	Chloropicrin 100% <200°F (93°C)
FEP / PFA / Teftek® List of Compatible Chemicals	FPTCC-DS_4_10_18
Chlorosulphonic Acid >20% <200°F (93°C)	Chlorosulphonic acid
Chromic Acid <20% <150°F (66°C)	Chromic acid (80%)
Cinnamaldehyde, pure	Cinnamic Aldehyde, pure
Cinnamon Oil, pure	Citric acid
Citric Acid >50% <212°F (100°C)	Citric Acid <50% <212°F (100°C)

ramé-hart PTFE and FEP Tubing Specifications

Clay Slurry	Coal Tar
Condensate <250°F (121°C)	Cooling Tower Water
Copper Acetate <20% <200°F (93°C)	Copper Acetate >20% <200°F (93°C)
Copper Ammonia Acetate <150°F (66°C)	Copper Chloride <100°F (38°C)
Copper Cyanide <10% <200°F (93°C)	Copper Cyanide >10% <200°F (93°C)
Copper Nitrate <10% <200°F (93°C)	Copper Nitrate >10% <200°F (93°C)
Copper Sulphate <60% <200°F (93°C)	Corn Oil
Corn Syrup (glucose)	Cotton Seed Oil
Creosote <200°F (93°C)	Cresylic Acid
Crude Oil	Cumene <200 (93°C)
Cutting Oil (abrasive)	Cutting Oil (clean)
Cyanoethylene, pure	Cyclohexane <200°F (93°C)
Cyclohexanol <200°F (93°C)	Cyclohexanone <200°F (93°C)
Cyclohexanone, pure	Cyclopentane, pure
De-Butanizer Reflux	Decahydronaphthalene, pure
Decalin, pure	De-Ethanizer Reflux
De-Propanizer Reflux	Detergents, synthetic
Dextrose <200°F (93°C)	Dextrose >200°F (93°C)
Diacetone Alcohol <200°F (93°C)	Diatomaceous Earth/Water <10%
Diatomaceous Earth/Water >10%	Dibutyl Ether <200°F (93°C)
Dibutyl Phthalate <212°F (100°C)	Dibutylamine <100°F (38°C)
Dichlorobenzene 100% <200°F (93°C)	Dichloroethane 70°F (21°C)
Dichloroethylene	Dichlorohydrin <200°F (93°C)
Diesel Fuel	Diethanolamine (DEA) <200°F (93°C)
Diethyl Carbonate <125°F (52°C)	Diethyl Ether <200°F (93°C)
Diethyl Ketone, pure	Diethyl Malonate, pure
Diethylamine <200°F (93°C)	Diethylamine, pure
Diethylene Dioxide, pure	Diethylene Glycol <300°F (149°C)
Diethylene Triamine <200°F (93°C)	Di-Isobutyl Ketone <200°F (93°C)
Di-Isopropyl Ether, pure	Di-Isopropyl Ketone
Dimethyl Acetamide, pure	Dimethyl Formamide (DMF) <400°F (204°C)
Dimethyl Formamide, pure	Dimethyl Hydrazine (UDMM) <100°F (38°C)
Dimethyl Ketone, pure	Dimethyl Terephthalate (DMT)
Dimethylamine <200°F (93°C)	Dimethylsulfoxide, pure
Dinitrochlorobenzene (DMCB) <200°F (93°C)	Diocetyl Phthalate <200°F (93°C)
Diocetylamine <200°F (93°C)	Dioxane, pure
DIPE, pure	Diphenyl <500°F (260°C)
Dipropylene Glycol, pure	Distilled Water
DMSO, pure	Dow Corning Silicone Fluids
Dowtherm A <400°F (204°C)	Dowtherm G <400°F (204°C)
Dowtherm H <400°F (204°C)	Dowtherm LF <400°F (204°C)
Dye Liquors	Emulsifiers, concentrated

ramé-hart PTFE and FEP Tubing Specifications

Epichlorohydrin <200°F (93°C)	Epsom Salt <40%
Ethane	Ethanol (Ethyl Alcohol) <200°F (93°C)
Ethanol (Fuel Grade w/ 5% Gasoline)	Ethanolamine (MEA) <200°F (93°C)
Ether, Ethyl	Ether, pure
Ethyl Acetate <300°F (149°C)	Ethyl Alcohol (Ethanol) <200°F (93°C)
Ethyl Benzene <200°F (93°C)	Ethyl Benzoate, pure
Ethyl Bromide <100°F (38°C)	Ethyl Butyrate, pure
Ethyl Cellulose	Ethyl Chloride 100%
Ethyl Cyanoacetate, pure	Ethyl Lactate, pure
Ethyl Sulphate	Ethylene
Ethylene Chloride, pure	Ethylene Dichloride
Ethylene Glycol <300°F (149°C)	Ethylene Oxide <200°F (93°C)
Ethylene Trichloride 70°F (21°C)	Fatty Acids, Saturated, pure
Fatty Acids, Unsaturated, pure	Ferric chloride
Ferric Chloride <125°F (52°C)	Ferric Hydroxide <175°F (79°C)
Ferric Nitrate <125°F (52°C)	Ferric Sulphate <125°F (52°C)
Ferrous Chloride <50% <175°F (79°C)	Ferrous Sulphate <175°F (79°C)
Ferrous sulphate	Fluorides, pure
Fluorinated refrigerants	Fluorosilic acid
Fluosilicic Acid 70°F (21°C)	Formaldehyde <40% <200°F (93°C)
Formaldehyde >40% <200°F (93°C)	Formaldehyde (40%)
Formamide <200°F (93°C)	Formic Acid <160°F (71°C)
Freon 11 & Refrig. Oil	Freon 112 & Refrig. Oil
Freon 113 & Refrig. Oil	Freon 114 & Refrig. Oil
Freon 115 & Refrig. Oil	Freon 12 & Refrig. Oil
FPTCC-DS_4_10_18	Freon 13 & Refrig. Oil
Freon 14 & Refrig. Oil	Freon 21 & Refrig. Oil
Freon 22 & Refrig. Oil	Freon 31 & Refrig. Oil
Freon 32 & Refrig. Oil	Fruit Juices
Fuel Oil	Furfural <20% <200°F (93°C)
Furfural >20% <200°F (93°C)	Furfuryl Alcohol <200°F (93°C)
Gas Oil	Gasoline w/ <20% MTBE
Gasoline, pure	Gelatin <200°F (93°C)
Gelatine	Glacial Acetic Acid <150°F (66°C)
Glaubers Salt	Glaubers Salt (Sodium Sulphate)
Glucose	Glue Sizing
Glues	Glutaraldehyde Disinfectant, pure
Glutaraldehyde, pure	Glycerine (Glycerol) <200°F (93°C)
Glycerol, pure	Glycol, ethylene
Glycolic acid	Green Sulphate Liquor-Clarified
Green Sulphate Liquor-w/Dregs	Heptane (gas) <200°F (93°C)
Heptane (liquid) <200°F (93°C)	Hexamethylene diamine

ramé-hart PTFE and FEP Tubing Specifications

Hexamine	Hexane (gas) <200°F (93°C)
Hexane (liquid) <200°F (93°C)	Hexanol <200°F (93°C)
Hydrated Alumina, pure	Hydrazine <150°F (66°C)
Hydrobromic Acid <200°F (93°C)	Hydrobromic acid (50%)
Hydrochloric Acid <10% 70°F (21°C)	Hydrochloric Acid <2% <125°F (52°C)
Hydrochloric Acid <37% <125°F (52°C)	Hydrochloric acid (10%)
Hydrochloric acid (conc.)	Hydrocyanic acid
Hydrocyanic Acid <200°F (93°C)	Hydrofluoric Acid <125°F (52°C)
Hydrofluoric acid (40%)	Hydrofluoric acid (75%)
Hydrogen (gas)	Hydrogen Cyanide <200°F (93°C)
Hydrogen Peroxide <200°F (93°C)	Hydrogen peroxide (30%)
Hydrogen peroxide (30-90%)	Hydrogen Sulphide (wet) <125°F (52°C)
Hydrogen Sulphide 100% <125°F (52°C)	Hydrogen Sulphide 100% 70°F (21°C)
Hydrogen Sulphide	Hypochlorites
Hypochlorites (Na 12-14%)	Hypochlorous Acid 70°F (21°C)
Iodine (wet) <100°F (38°C)	Iodine Crystals, pure
Iodoform <125°F (52°C)	Isobutane <200°F (93°C)
Isobutanol, pure	Isobutyl Acetate <200°F (93°C)
Isobutyl Alcohol	Isobutyl Methyl Ketone <200°F (93°C)
Iso-butyl-acetate	Isobutylaldehyde
Isobutylene Glycol	Isopentane
Isopropanol <200°F (93°C)	Isopropyl Acetate <200°F (93°C)
Isopropyl Alcohol	Isopropyl Benzene, pure
Isopropyl Ether, pure	Isopropylamine
Jet Fuel JP-10	Jet Fuel JP-3
Jet Fuel JP-4	Jet Fuel JP-5
Jet Fuel JP-6	Jet Fuel JP-8
Jet Fuel JP-9	Jet Fuel JP-911
Kaolin Slurry (Clay Slurry)	Kerosene
Lacquers (MEK Solvent)	Lactic Acid <150°F (66°C)
Lactic acid (90%)	L-alpha-amino Propionic Acid, pure
Lard	Latex, Emulsion
Lead Acetate <200°F (93°C)	Lead Chloride <200°F (93°C)
Lead Nitrate <200°F (93°C)	Lead perchlorate
Levulinic Acid <200°F (93°C)	Lime (CaO)
Lime Slurry <50% <200°F (93°C)	Linseed Oil <400°F (204°C)
Liquidified Natural Gas (LNG)	Liquidified Petroleum Gas (LPG)
Lithium Chloride <212°F (100°C)	Lithium Hydroxide <212°F (100°C)
L-Tartaric Acid, pure	Lubricating Oil
Magnesium Chloride <200°F (93°C)	Magnesium Hydroxide
Magnesium Nitrate <150°F (66°C)	Magnesium Sulphate <40% <150°F (66°C)
Maleic acid	Maleic Acid <150°F (66°C)

ramé-hart PTFE and FEP Tubing Specifications

Maleic Anhydride <350°F (177°C)	Malic Acid <50% <212°F (100°C)
Manganate, potassium (K)	Manganese Chloride <50% <200°F (93°C)
Manganese Sulphate <200°F (93°C)	Meat juices
MEK, pure	Mercaptans 100% 70°F (21°C)
Mercuric Chloride <30% <150°F (66°C)	Mercury <150°F (66°C)
Methane (liquid)	Methane (gas)
Methanol	Methanol <200°F (93°C)
Methoxyethyl Oleate, pure	Methyl Acetate <200°F (93°C)
Methyl Acrylate <200°F (93°C)	Methyl Alcohol, pure
Methyl Bromide (gas)	Methyl Chloride <125°F (52°C)
Methyl Ethyl Ketone 100% <150°F (66°C)	Methyl Ethyl Ketone (MEK) <150°F (66°C)
Methyl Isobutyl Ketones (MIBK) <150°F (66°C)	Methyl Methacrylate <125°F (52°C)
Methyl Propyl Ketone, pure	Methylene Chloride <125°F (52°C)
Methylene Dichloride <125°F (52°C)	FPTCC-DS_4_10_18
Methyloxirane, pure	Methyl-Tert-Butyl-Ether(MTBE) <200°F (93°C)
MIBK, pure	Milk products
Mineral Oil	Mineral Spirits
Moist air	Molasses
Monoethanolamine	Monoethanolamine (MEA) <200°F (93°C)
Muriatic Acid <125°F (52°C)	Naphtha
Naphthalene <400°F (204°C)	Naphthalene Chloride <200°F (93°C)
Naphthenic Acid <300°F (149°C)	Naptha
Naphthalene	N-Butanol, pure
N-Butyl Acetate, pure	N-Butyl Alcohol, pure
N-Decane, pure	N-Heptane, pure
Nickel Chloride <80% <212°F (100°C)	Nickel Plating Solution
Nickel salts	Nickel Sulphate <40% <125°F (52°C)
Nitrates of Na, K and NH3	Nitric Acid 70°F (21°C)
Nitric Acid <20% 70°F (21°C)	Nitric Acid <60% <170°F (77°C)
Nitric Acid <70% 70°F (21°C)	Nitric Acid <80% <125°F (52°C)
Nitric acid (>25%)	Nitric acid (50%)
Nitric acid (90%)	Nitric acid (fuming)
Nitrite (Na)	Nitrobenzene
Nitroethane	Nitrogen (Gas)
Nitrogen (Liquid)	Nitrohydrochloric Acid, pure
Nitromethane	Nitropropane
Nitrous Acid <200°F (93°C)	N-Octane, pure
Oil, Cedarwood, pure	Oil, Cinnamon, pure
Oil, Mineral, pure	Oil, Orange, pure
Oil, Pine, pure	Oleic Acid <150°F (66°C)
Oleum <125°F (52°C)	Olive Oil
Orange Oil, pure	Orthoarsenic Acid, pure

ramé-hart PTFE and FEP Tubing Specifications

Oxalic acid	Oxalic Acid <125°F (52°C)
Oxygen (Dry Gas)	Oxygen (Wet)
Ozone	Ozone (Wet)
Ozone, pure	Palm Oil
Palmitic Acid <400°F (204°C)	Paper Stock
Paracymene 70°F (21°C)	Paraffin wax
Paraffin, Molten	Paraformaldehyde <30% <350°F (177°C)
Paraldehyde <200°F (93°C)	p-Chloroacetophenone, pure
p-Dichlorobenzene, pure	Peanut Oil
Pectin Liquor	Penicillin
Pentane (Gas) <200°F (93°C)	Pentane (Liquid) <200°F (93°C)
Pentyl acetate, pure	Perchloric acid
Perchloric Acid, pure	Perchloroethylene 100% <200°F (93°C)
Peroxide of Hydrogen <200°F (93°C)	Persulphuric Acid <250°F (121°C)
Petroleum Ether	Petroleum Oil
Phenol	Phenyl Acetic Acid <200°F (93°C)
Phenyl Methyl Ketone, pure	Phenylacrolein, pure
Phosgene <300°F (149°C)	Phosphoric Acid <200°F (93°C)
Phosphoric Acid <85% <150°F (66°C)	Phosphoric acid (20%)
Phosphoric acid (50%)	Phosphoric acid (95%)
Phosphorous chlorides	Phosphorous Oxychloride <200°F (93°C)
Phosphorous pentoxide	Phthalic acid
Phthalic Acid <400°F (204°C)	Phthalic Anhydride <400°F (204°C)
Phthalic Anhydride (Crude) <400°F (204°C)	Picric Acid <200°F (93°C)
Picric Acid, pure	Pine Oil, pure
Plating Solution - Chrome	Plating Solution - Nickel/Copper
Polybutadiene (Rubber)	Polyethylene
Polyethylene Glycol	Polypropylene Glycol
Polystyrene	Potash <200°F (93°C)
Potassium Bicarbonate <30% <212°F (100°C)	Potassium Bicarbonate >30% <212°F (100°C)
Potassium Carbonate <200°F (93°C)	Potassium Chloride <30% <200°F (93°C)
Potassium Cyanide <200°F (93°C)	Potassium Hydroxide <300°F (149°C)
Potassium Hydroxide <40% 70°F (21°C)	Potassium Nitrate <200°F (93°C)
Potassium Permanganate <200°F (93°C)	Potassium Phosphate <200°F (93°C)
Potassium Silicate <200°F (93°C)	Potassium Sulphate <200°F (93°C)
Propane (Gas)	Propane (Liquid)
Propionaldehyde <150°F (66°C)	Propionic Acid <150°F (66°C)
Propyl Acetate <150°F (66°C)	Propyl Alcohol (Propanol) <200°F (93°C)
Propylene (Gas)	Propylene (Liquid)
Propylene Glycol	Propylene Oxide <200°F (93°C)
PVC (Polyvinyl Chloride)	Pyridine <212°F (100°C)
Rosin - Paper Mill <400°F (204°C)	Rosin Size <350°F (177°C)

ramé-hart PTFE and FEP Tubing Specifications

Salicylic Acid <200°F (93°C)	Sea water
Sea Water <200°F (93°C)	Sec-Butanol, pure
FPTCC-DS_4_10_18	Sec-Butyl Alcohol, pure
Sewage	Sewage Sludge
Silicic acid	Silicone Oils
Silver Chloride 70°F (21°C)	Silver nitrate
Silver Nitrate <60% 70°F (21°C)	Skydrol LD4 Aviation Hydraulic Fluid, pure
Soap Liquors	Soda Ash <200°F (93°C)
Sodium Acetate <200°F (93°C)	Sodium Bicarbonate <20% <212°F (100°C)
Sodium Sulphite <200°F (93°C)	Sodium Borate (Borax) <200°F (93°C)
Sodium Bromide <200°F (93°C)	Sodium carbonate
Sodium Carbonate <200°F (93°C)	Sodium Chlorate <140°F (60°C)
Sodium Chloride <200°F (93°C)	Sodium Chromate <140°F (60°C)
Sodium Cyanide <200°F (93°C)	Sodium Ferricyanide <200°F (93°C)
Sodium Hydro-sulphide <200°F (93°C)	Sodium Hydroxide <40% 70°F (21°C)
Sodium Hydroxide 1- 20% <250°F (121°C)	Sodium Hydroxide 21-50% <250°F (121°C)
Sodium Hydroxide 51- 70% <250°F (121°C)	Sodium Hypochlorite <125°F (52°C)
Sodium Meta-silicates <200°F (93°C)	Sodium Nitrate <212°F (100°C)
Sodium Nitrite <200°F (93°C)	Sodium Perchlorate <200°F (93°C)
Sodium peroxide	Sodium Phosphate-Di <200°F (93°C)
Sodium Phosphate-Mono <200°F (93°C)	Sodium Phosphate-Tri <200°F (93°C)
Sodium Silicate <200°F (93°C)	Sodium Sulphate <200°F (93°C)
Sodium Sulphide <200°F (93°C)	Sodium Sulphite <200°F (93°C)
Sodium sulphide	Sodium Thiosulphate <200°F (93°C)
Soy bean Oil	Stannic Chloride
Starch	Stearic Acid <150°F (65°C)
Stoddard Solution	Styrene <200°F (93°C)
Succinic Acid <200°F (93°C)	Sugar Solution (Sucrose) <200°F (93°C)
Sugar Solution (Sucrose) >200°F (93°C)	Sugar, syrups & jams
Sulphur - Molten <400°F (204°C)	Sulphur Dioxide - Wet <200°F (93°C)
Sulphur Salts, pure	Sulphuric Acid 0-90% <125°F (52°C)
Sulphuric Acid 60-70% 300°F (149°C)	Sulphuric Acid 90-100% <125°F (52°C)
Sulphuric Acid - Oleum <125°F (52°C)	Sulphurous Acid <150°F (65°C)
Syrup (Sucrose Solution) >200°F (93°C)	Tall Oil <350°F (177°C)
Tallow	Tannic Acid <200°F (93°C)
Tannic acid (10%)	Tar Bituminous
Tartaric acid	Tartaric Acid <150°F (65°C)
TCA, pure	tert-Butanol, pure
tert-Butyl Alcohol, pure	Tetrachlorethylene 100% <250°F (121°C)
Tetrachloroethane 100%	Tetraethyl Lead
Tetrahydrofuran (THF) <100°F (38°C)	Therminols
Thionyl Chloride, pure	Tincture of Iodine, pure

Titanium Dioxide Slurry <10%	Titanium Dioxide Slurry >10%
Titanium Tetrachloride <100°F (38°C)	Toluene
Transformer Oil	Transmission Fluid
Tribromomethane, pure	Tributyl Citrate, pure
Trichloroacetic Acid <200°F (93°C)	Trichlorobenzene 100% <300°F (149°C)
Trichloroethane 100% <200°F (93°C)	Trichloroethylene 100% <200°F (93°C)
Triethanolamine (TEA) <200°F (93°C)	Triethylene Glycol, pure
Trimethyl Amine (TMA) <200°F (93°C)	Tripropylene Glycol, pure
Tris Buffer Solution, pH 11, pure	Tris Buffer Solution, pH 7.0, pure
Trisodium Phosphate, pure	Tung Oil
Turpentine	Ucon Oils
Urea <350°F (177°C)	Vegetable Oil <300°F (149°C)
Vinegar	Vinyl Acetate <300°F (149°C)
Vinyl Chloride <125°F (52°C)	Vinyl Cyanide, pure
Water - Boiler Feed	Water - Borated <300°F (149°C)
Water - Brackish <200°F (93°C)	Water - Clean
Water - Condensate <250°F (121°C)	Water - Cooling Tower
Water - Deionized	Water - De-mineralized
Water - Distilled	Water - Heavy
Water - River or Lake, Fresh	Water - Sea <200°F (93°C)
Water - Sour	Water - W/Oil
Water, distilled	Water, hard
Water, soft	Whiskey
White Liquor - Clarified <300°F (149°C)	White Liquor - Unclearified <300°F (149°C)
White Spirits, pure	White Water - Calcium
White Water - Caustic	White Water - Chlorine Dioxide
White Water - Paper Machine	Wine
Wort	Xylene (Xylol) <350°F (177°C)
Yeast	Yeast - Torula <150°F (66°C)
Yeast - Wort <150°F (66°C)	Zinc Chloride
Zinc Cyanide	Zinc Nitrate
Zinc Phosphate Solution <20% <150°F (66°C)	Zinc Sulphate <200°F (93°C)

List of only known materials known to react with PTFE and FEP:

- Elemental alkali metals like sodium, potassium and lithium (molten or in solution)
- Intimate blends of finely divided metal powders (e.g. aluminium or magnesium) with powdered Fluoropolymers can react violently when ignited, but ignition temperatures are far above the published recommended maximum service temperature for Fluoropolymers
- Extremely potent oxidizer, fluorine (F2) and related compounds like chlorine trifluoride (ClF3)
- 80% NaOH or KOH solutions at or near the upper service temperature