

Maximum Usage Temperatures for KYNAR (PVDF)

*NR Indicated KYNAR is not recommended for use

*Temperatures listed do not take into account vacuum, mixtures, and close tolerances

Chemical Substance	Concentration	°F	°C
Acetaldehyde		NR	
Acetamide		75	25
Acetic Acid		120	50
Acetic Acid	10% in water	225	110
Acetic Acid	50% in water	200	95
Acetic Acid	80% in water	150	65
Acetic Anhydride		NR	
Acetone		NR	
Acetone	10% in water	125	50
Acetonitrile		125	50
Acetophenone		NR	
Acetyl Bromide		125	50
Acetyl Chloride		125	50
Acetylacetone		NR	
Acetylene		250	120
Acrylonitrile		75	25
Adipic Acid		150	65
Air		285	140
Alcoholic Spirits	40% Ethyl Alcohol	200	95
Allyl Alcohol		125	50
Allyl Chloride		212	100
Aluminum Acetate	Aqueous Solution or Solid	285	140
Aluminum Bromide		285	140
Aluminum Chloride	up to 40% in water	285	140
Aluminum Fluoride	Aqueous Solution or Solid	275	135
Aluminum Hydroxide		275	135
Aluminum Nitrate	Aqueous Solution or Solid	275	135
Aluminum Oxychloride		275	135
Aluminum Sulfate	Aqueous Solution or Solid	275	135

Ammonia, Gas		NR	
Ammonia, Liquid		NR	
Ammonium Acetate	Aqueous Solution or Solid	175	80
Ammonium Alum	Aqueous Solution or Solid	275	135
Ammonium Bifluoride	Aqueous Solution or Solid	150	65
Ammonium Bromide	Aqueous Solution or Solid	250	120
Ammonium Carbonate	Aqueous Solution or Solid	275	135
Ammonium Chloride	Aqueous Solution or Solid	275	135
Ammonium Dichromate	Aqueous Solution or Solid	250	120
Ammonium Fluoride	Aqueous Solution or Solid	275	135
Ammonium Hydroxide	up to "Concentrated"	225	110
Ammonium Metaphosphate	Aqueous Solution or Solid	275	135
Ammonium Nitrate	Aqueous Solution or Solid	275	135
Ammonium Persulfate	Aqueous Solution or Solid	75	25
Ammonium Phosphate	Aqueous Solution or Solid	275	135
Ammonium Sulfate	Aqueous Solution or Solid	275	135
Ammonium Sulfide	Aqueous Solution or Solid	125	50
Ammonium Thiocyanate	Aqueous Solution or Solid	275	135
Amyl Acetate		125	50
Amyl Alcohol		275	135
Sec-Amyl Alcohol		125	50
Amyl Chloride		285	140
Aniline		100	40
Aniline Hydrochloride	Aqueous Solution or Solid	75	25
Aqua Regia		75	25
Arsenic Acid	Aqueous Solution	275	135
Asphalt		250	120
Barium Carbonate		285	140
Barium Chloride	Aqueous Solution or Solid	285	140
Barium Hydroxide		275	135
Barium Nitrate	Aqueous Solution or Solid	275	135
Barium Sulfate		285	140
Barium Sulfide		275	135
Beer		212	100
Beet Sugar Liqours		225	110

Benzaldehyde		70	20
Benzene		170	75
Benzenesulfonic Acid	Aqueous Solution or Solid	125	50
Benzoic Acid		225	110
Benzoyl Chloride		170	75
Benzoyl Peroxide		170	75
Benzyl Alcohol		250	120
Benzyl Chloride		285	140
Benzyl Ether		100	40
Benzylamine	Aqueous Solution or Liquid	75	25
Black Liquor		175	80
Bleaching Agents		275	135
Borax		275	135
Boric Acid		275	135
Boron Trifluoride		75	25
Brine		285	140
Brine, acid		285	140
Brine, basic		285	140
Brine, chlorinated acid		200	95
Bromic Acid	Aqueous Solution	200	95
Bromine Dry Gas		150	65
Bromine, liquid		150	65
Bromine, Water		212	100
Bromobenzene		150	65
m-Bromotoluene		175	80
Butadiene		250	120
Butane		250	120
Butanediol	Aqueous Solution or Liquid	275	135
Butyl Acetate		80	25
Butyl Alcohol	Aqueous Solution or Liquid	225	110
Sec-Butyl Alcohol	Aqueous Solution or Liquid	200	95
T-Butyl Alcohol	Aqueous Solution or Liquid	200	95
Butyl Acrylate		125	50
Butyl Bromide		285	140
Butyl Chloride		285	140

Butyl Ether		100	40
Butyl Mercaptan		285	140
Butyl Stearate		100	40
Butylamine	Aqueous Solution or Liquid NR		
Sec-Butylamine	Aqueous Solution or Liquid	70	20
T-Butylamine	Aqueous Solution or Solid	70	20
1-Butylene		285	140
Butylphenol		225	110
Butylaldehyde		150	65
Butyric Acid		225	110
Calcium Acetate	Aqueous Solution or Solid	285	140
Calcium Bisulfate	Aqueous Solution or Solid	285	140
Calcium Bisulfite	Aqueous Solution or Solid	200	95
Calcium Bromide	Aqueous Solution or Solid	285	140
Calcium Carbonate		285	140
Calcium Chlorate	Aqueous Solution or Solid	285	140
Calcium Chloride	Aqueous Solution or Solid	285	140
Calcium Hydroxide		275	135
Calcium Hypochlorite	Aqueous Solution or Solid	200	95
Calcium Nitrate	Aqueous Solution or Solid	275	135
Calcium Oxide		250	120
Calcium Phosphate		285	140
Calcium Sulfate		285	140
Cane Sugar Liquors		285	140
Caprylic Acid		175	80
Carbon Dioxide		285	140
Carbon Disulfide		75	25
Carbon Monoxide		285	140
Carbon Tetrachloride		275	135
Carbonic Acid		275	135
Casein		250	120
Castor Oil		285	140
Chloral Hydrate		75	25
Chlorinated Phenol		150	65
Chlorine	5% in CCL 4	200	95

Chlorine, Gas		200	95
Chlorine, Liquid		200	95
Chlorine Dioxide		150	65
Chlorine Water		225	110
Chloroacetic Acid	Aqueous Solution or Pure	NR	
Chloroacetyl Chloride		125	50
Chlorobenzene		170	75
Chlorobenzene-sulfonic Acid	Aqueous Solution or Pure	200	95
Chlorobenzyl Chloride		125	50
Chlorofluorocarbon 11		200	95
Chlorofluorocarbon 12		200	95
Chlorofluorocarbon 13		200	95
Chlorofluorocarbon 14		200	95
Chlorofluorocarbon 21		200	95
Chlorofluorocarbon 22		200	95
Chlorofluorocarbon 113		200	95
Chlorofluorocarbon 114		200	95
Chloroform		125	50
6-Chlorohexanol		170	75
Chlorohydrin		125	50
Chloropicrin		150	65
Chlorosulfonic Acid		NR	
Chlorotrimethylsilane		125	50
Chrome Alum	Aqueous Solution or Solid	200	95
Chromic Acid	up to 40% in water	175	80
Chromic Acid	50% in water	125	50
Chromyl Chloride		125	50
Cider		140	60
Citric Acid	Aqueous Solution or Solid	275	135
Coal Gas		225	110
Coconut Oil		285	140
Copper Acetate	Aqueous Solution or Solid	250	120
Copper Carbonate, Basic		285	140
Copper Chloride	Aqueous Solution or Solid	285	140
Copper Cyanide		275	135

Copper Fluoride		275	135
Copper Nitrate	Aqueous Solution or Solid	275	135
Copper Sulfate	Aqueous Solution or Solid	285	140
Corn Oil		285	140
Corn Syrup		250	120
Cottonseed Oil		285	140
Cresol		150	65
Cresylic Acid		150	65
Crotonaldehyde		125	60
Crude Oil		285	140
Cryolite		250	120
Cuprous Chloride		250	120
Cyclohexane		285	140
Cyclohexanol		150	65
Cyclohexanone		75	25
Cyclohexyl Acetate		200	95
Decane		250	120
Dextrin	Aqueous Solution or Solid	250	120
Diacetone Alcohol		75	25
P-Dibromobenzene		200	95
1,2 - Dibromobenzene		200	95
Dibutyl Phthalate	NR		
Dibutyl Sebacate	NR		
Dibutylamine	Aqueous Solution or Liquid	70	20
Dichloroacetic Acid	Aqueous Solution or Liquid	125	50
O-Dichlorobenzene		150	65
Dichlorodimethylsilane		125	50
Dichlorotoluene		150	65
Diesel Fuels		285	140
Diethanolamine	Aqueous Solution or Liquid NR		
Diethylamine	Aqueous Solution or Liquid	125	50
Diglycolic Acid		75	25
Diisobutyl Ketone		125	50
Diisobutylene		285	140
Diisopropyl Ketone		70	20

Dimethyl Acetamide	NR		
Dimethyl Formamide	NR		
Dimethyl Phthalate		75	25
Dimethyl Sulfate		75	25
Dimethyl Sulfoxide	NR		
Dimethylamine	Aqueous Solution or Gas	75	25
Dimethylaniline		75	25
2,6, - Dimethyl -4- heptanol		200	95
2,5 - Dimethyl -1,5-hexadiene		250	120
Dioctyl Phthalate		75	25
1,4,- Dioxane	NR		
Dipropylene Glycol Methyl Ether		75	25
Disodium Phosphate	Aqueous Solution or Solid	200	95
Divinyl Benzene		125	50
Epichlorohydrin	NR		
Epsom Salts	Aqueous Solution or Solid	200	95
Ethanethiol		75	25
Ethanolamine	Aqueous Solution or Liquid	NR	
2-Ethoxyethyl Acetate	Aqueous Solution or Liquid	200	95
Ethyl Acetate	NR		
Ethyl Acetoacetate		75	25
Ethyl Acrylate		75	25
Ethyl Alcohol	Aqueous Solution or Liquid	285	140
Ethyl Chloride		285	140
Ethyl Chloroacetate		75	25
Ethyl Chloroformate		125	50
Ethyl Cyanoacetate		75	25
Ethyl Ether		125	50
Ethyl Formate		75	25
Ethylbenzene		125	50
Ethylene Chlorohydrin	Aqueous Solution or Liquid	75	25
Ethylene Dichloride		275	135
Ethylene Glycol	Aqueous Solution or Liquid	285	140
Ethylene Oxide		200	95
Ethylenediamine	Aqueous Solution or Liquid	225	110

2-Ethyl-1-hexanol		250	120
Fatty Acids		285	140
Fatty Acids, Sulfonates		175	80
Ferric Chloride	Aqueous Solution or Solid	285	140
Ferric Hydroxide		250	120
Ferric Nitrate	Aqueous Solution or Solid	275	135
Ferric Sulfate		285	140
Ferric Sulfide		250	120
Ferrous Chloride	Aqueous Solution or Solid	285	140
Ferrous Hydroxide		250	120
Ferrous Nitrate	Aqueous Solution or Solid	275	135
Ferrous Sulfate		285	140
Fluorine		75	25
Fluoroboric Acid	Aqueous Solution	275	135
Fluorosilic Acid		275	135
Formaldehyde	37% in water	125	50
Formic Acid	Aqueous Solution or Liquid	250	120
Fructose	Aqueous Solution or Solid	285	140
Fruit Juices, Pulp		212	100
Fuel Oil		285	140
Fumaric Acid		170	65
Furan	NR		
Furfural		75	25
Furfuryl Acid		170	65
Gallic Acid		75	25
Gas, manufactured		285	140
Gas, natural		285	140
Gasoline, leaded		285	140
Gasoline, sour		285	140
Gasoline, unleaded		285	140
Gelatin		250	120
Gin		200	95
Glucose	Aqueous Solution or Solid	285	140
Glue		250	120
Glutamic Acid		200	95

Glycerin	Aqueous Solution or Liquid	285	140
Glycine	Aqueous Solution or Solid	75	25
Glycolic Acid		75	25
Heptane		285	140
Hexachloro-1,3-butadiene		125	50
Hexamethylphosphotriamide	NR		
Hexamethylenediamine	NR		
Hexane		285	140
Hexyl Alcohol		175	80
Hydrazine	Aqueous Solution or Liquid	200	95
Hydrazine Dihydrochloride	Aqueous Solution or Solid	75	25
Hydrazine Hydrate	Aqueous Solution or Liquid	125	50
Hydriodic Acid	Aqueous Solution	275	135
Hydrobromic Acid	up to 50% in water	275	135
Hydrochloric Acid	up to concentrated	285	140
Hydrocyanic Acid	Aqueous Solution	275	135
Hydrofluoric Acid	up to 40% in water	250	120
Hydrofluoric Acid	41-100% in water	200	95
Hydrogen		285	140
Hydrogen Chloride		285	140
Hydrogen Cyanide		275	135
Hydrogen Fluoride		200	95
Hydrogen Peroxide	up to 30% in water	200	95
Hydrogen Peroxide	90% in water	70	20
Hydrogen Sulfide	Aqueous Solution	275	135
Hydroquinone		250	120
Hypochlorous Acid	Aqueous Solution	70	20
Iodine	10% in non-aqueous solvent	150	65
Iodine, gas		150	65
Iodoform		200	95
Isoamyl Ether		250	120
Isobutyl Alcohol		250	120
Isooctane		250	120
Isophorone		175	80
Isopropyl Alcohol	Aqueous Solution or Liquid	140	60

Isopropyl Chloride		100	40
Isopropyl Ether		125	50
Isopropylbenzene		100	40
Jet Fuel (JP4, JP5)		200	95
Kerosene		285	140
Lactic Acid	Aqueous Solution or Pure	125	60
Lanolin		250	120
Lard Oil		285	140
Lauric Acid		225	110
Lauroyl Chloride		250	120
Lauryl Mercaptan		200	95
Lauryl Sulfate		250	120
Lead Acetate	Aqueous Solution or Solid	275	135
Lead Chloride		250	120
Lead Nitrate	Aqueous Solution or Solid	250	120
Lead Sulfate		250	120
Lemon Oil		250	120
Linoleic Acid		250	120
Linseed Oil		285	140
Lithium Bromide	Aqueous Solution or Solid	225	110
Lithium Chloride	Aqueous Solution or Solid	250	120
Lubricating Oil		285	140
Magnesium Carbonate		285	140
Magnesium Chloride	Aqueous Solution or Solid	285	140
Magnesium Citrate		250	120
Magnesium Hydroxide		275	135
Magnesium Nitrate	Aqueous Solution or Solid	275	135
Magnesium Sulfate	Aqueous Solution or Solid	275	135
Mercuric Chloride		250	120
Mercuric Cyanide		250	120
Mercuric Nitrate	Aqueous Solution or Solid	275	135
Mercury		285	140
Methacrylic Acid		125	50
Methane		285	140
Methanesulfonic Acid	Aqueous Solution or Liquid	200	95

Methyl Acetate		100	40
Methyl Acrylate		100	40
Methyl Alcohol	Aqueous Solution or Liquid	285	140
Methyl Bromide		285	140
Methyl Chloride		285	140
Methyl Chloroacetate		75	25
Methyl Chloromethyl Ether		75	25
Methyl Ethyl Ketone	NR		
Methyl Isobutyl Ketone	NR		
Methyl Methacrylate		125	50
Methyl Salicylate		150	65
Methylamine	NR		
Methylchloroform		125	50
Methylene Bromide		175	80
Methylene Chloride		125	50
Methylene Iodine		200	95
Methylsulfuric Acid	Aqueous Solution or Liquid	125	50
Methyltrichlorosilane		150	65
Milk		250	120
Mineral Oil		285	140
Molasses		175	80
Morpholine	Aqueous Solution or Liquid	75	25
Motor Oil		275	135
Naphtha		275	135
Naphthalene		200	95
Nickel Acetate	Aqueous Solution or Solid	250	120
Nickel Chloride	Aqueous Solution or Solid	285	140
Nickel Nitrate	Aqueous Solution or Solid	285	140
Nickel Sulfate	Aqueous Solution or Solid	285	140
Nicotine		70	20
Nicotonic Acid		250	120
Nitric Acid	up to 10% in water	175	80
Nitric Acid	11-70% in water	125	50
Nitric Acid, fuming	NR		
Nitrobenzene		75	25

Nitroethane		70	20
Nitrogen		285	140
Nitrogen Dioxide		170	75
Nitroglycerin		125	50
Nitromethane		120	50
Nitrotoluene		175	80
Nitrous Oxide	NR		
Octane		285	140
Octene		285	140
Oleic Acid		250	120
Oleum	NR		
Olive Oil		250	120
Oxalic Acid		125	50
Oxygen		285	140
Ozone		225	110
Palm Oil		200	95
Palmitic Acid		250	120
Paraffin		250	120
Paraffin Oil		250	120
Peanut Oil		250	120
Perchloric Acid	10% in water	200	95
Perchloric Acid	70% in water	125	50
Perchloroethylene		275	135
Perchloromethyl Mercaptan		125	50
Petrolatum		285	140
Petroleum		275	135
Phenol	5% in water	175	80
Phenol		125	50
1-Phenol-2-sulfonic Acid		125	50
Phenyl Ether		125	50
Phenylhydrazine		125	50
Phenylhydrazine Hydrochloride	Aqueous Solution or Solid	125	50
o-Phenylphenol		175	80
Phosgene		175	80
Phosphoric Acid	less than 85% in water	275	135

Phosphoric Acid	85% in water	225	110
Phosphorus, red		75	25
Phosphorus, Oxychloride		NR	
Phosphorus, Pentachloride		200	95
Phosphorus, Pentoxide		200	95
Phosphorus, Trichloride		200	95
Phthalic Acid		200	95
Picric Acid		75	25
Brass Plating Solution		200	95
Cadmium Plating Solution		200	95
Chrome Plating Solution		200	95
Copper Plating Solution		200	95
Iron Plating Solution		200	95
Lead Plating Solution		200	95
Nickel Plating Solution		200	95
Rodium Plating Solution		200	95
Silver Plating Solution		200	95
Speculum Plating Solution		200	95
Tin Plating Solution		200	95
Zinc Plating Solution		200	95
Polyethylene Glycol		200	95
Polyvinyl Acetate		275	135
Polyvinyl Alcohol		275	135
Potassium		NR	
Potassium Acetate	Aqueous Solution or Solid	285	140
Potassium Alum	Aqueous Solution or Liquid	285	140
Potassium Aluminum Chloride		285	140
Potassium Bicarbonate	Aqueous Solution or Solid	200	95
Potassium Bisulfate	Aqueous Solution or Solid	285	140
Potassium Borate	Aqueous Solution or Solid	285	140
Potassium Bromate	Aqueous Solution or Solid	285	140
Potassium Bromide	Aqueous Solution or Solid	285	140
Potassium Carbonate	Aqueous Solution or Solid	285	140
Potassium Chlorate		200	95
Potassium Chloride	Aqueous Solution or Solid	285	140

Potassium Chromate	Aqueous Solution or Solid	285	140
Potassium Cyanide	Aqueous Solution or Solid	285	140
Potassium Dichromate		285	140
Potassium Ferricyanide	Aqueous Solution or Solid	285	140
Potassium Ferrocyanide	Aqueous Solution or Solid	285	140
Potassium Fluoride	Aqueous Solution or Solid	285	140
Potassium Hydroxide	5 to 10% in water	NR	
Potassium Hydroxide	greater than 50% in water	NR	
Potassium Hypochlorite	Aqueous Solution	200	95
Potassium Iodide	Aqueous Solution or Solid	250	120
Potassium Nitrate	Aqueous Solution or Solid	285	140
Potassium Perborate		285	140
Potassium Perchlorate		200	95
Potassium Permanganate	Aqueous Solution or Solid	250	120
Potassium Persulfate		125	50
Potassium Sulfate	Aqueous Solution or Solid	285	140
Potassium Sulfide		285	140
Propane		285	140
Propyl Acetate		100	40
Propyl Alcohol	Aqueous Solution or Liquid	150	65
Propylamine		NR	
Proylene Dibromide		200	95
Propylene Dichloride		200	95
Propylene Glycol	Aqueous Solution or Liquid	150	65
Propylene Oxide		NR	
Pyridine		NR	
Pyrogallol	Aqueous Solution or Solid	120	50
Salicylaldehyde		125	50
Salicylic Acid		200	95
Selenic Acid	Aqueous Solution or Pure	150	65
Silicon Tetrachloride		125	50
Silicone Oil		250	120
Silver Cyanide		285	140
Silver Nitrate	Aqueous Solution or Solid	285	140
Silver Sulfate		250	120

Sodium		NR		
Sodium Acetate	Aqueous Solution or Solid		285	140
Sodium Amalgam		NR		
Sodium Benzoate	Aqueous Solution or Solid		285	140
Sodium Bicarbonate	Aqueous Solution or Solid		285	140
Sodium Bisulfate	Aqueous Solution or Solid		285	140
Sodium Bisulfite	Aqueous Solution or Solid		285	140
Sodium Bromate	Aqueous Solution or Solid		200	95
Sodium Bromide	Aqueous Solution or Solid		285	140
Sodium Carbonate	Aqueous Solution or Solid		285	140
Sodium Chlorate	Aqueous Solution or Solid		250	120
Sodium Chlorite	Aqueous Solution or Solid		250	120
Sodium Chromate	Aqueous Solution or Solid		200	95
Sodium Cyanide	Aqueous Solution or Solid		275	135
Sodium Dichromate	Aqueous Solution or Solid		200	95
Sodium Cithionite	Aqueous Solution or Solid		100	40
Sodium Ferricyanide	Aqueous Solution or Solid		275	135
Sodium Ferrocyanide	Aqueous Solution or Solid		275	135
Sodium Fluoride	Aqueous Solution or Solid		285	140
Sodium Fluosilicate			200	95
Sodium Hydrogen Phosphate	Aqueous Solution or Solid		250	120
Sodium Hydroxide	up to 10% in water		100	40
Sodium Hydroxide	greater than 50% in water	NR		
Sodium Hypochlorite	6-15% in water		200	95
Sodium Hypochlorite	Aqueous Solution or Solid		285	140
Sodium Iodide	Aqueous Solution or Solid		275	135
Sodium Nitrate	Aqueous Solution or Solid		275	135
Sodium Palmitate			250	120
Sodium Perchlorate	Aqueous Solution or Solid		250	120
Sodium Peroxide			200	95
Sodium Phosphate	Aqueous Solution or Solid		285	140
Sodium Thiocyanate	Aqueous Solution or Solid		250	120
Sodium Thiosulfate	Aqueous Solution or Solid		275	135
Sour Crude Oil			285	140
Soybean Oil			250	120

Stannic Chloride	Aqueous Solution or Solid	285	140
Stannous Chloride	Aqueous Solution or Solid	285	140
Starch		200	95
Stearic Acid		285	140
Stilbene		175	80
Styrene		180	85
Succinic Acid		150	65
Sugar Syrup		285	140
Sulfur		250	120
Sulfur Chloride		75	25
Sulfur Dichloride		75	25
Sulfur Dioxide		175	80
Sulfur Trioxide	NR		
Sulfuric Acid	up to 60% in water	250	120
Sulfuric Acid	80-93% in water	200	95
Sulfuric Acid	98% in water	150	65
Sulfuric Acid, fuming	NR		
Sulfuryl Chloride	NR		
Sulfuryl Fluoride		75	25
Tall Oil		285	140
Tallow		285	140
Tannic Acid		225	110
Tar		250	120
Tartaric Acid	Aqueous Solution or Solid	250	120
1,1,2,2,- Tetrabromoethane		250	120
1,1,2,2-Tetrachloroethane		250	120
2,3,4,6-Tetrachlorophenol		150	65
Tetraethyllead		285	140
Tetrahydrofuran	Aqueous Solution or Liquid	NR	
Tetramethylammonium Hydroxide	up to 10% in water	200	95
Tetramethylurea	NR		
Thioglycol		75	25
Thioglycolic Acid		175	80
Thionyl Chloride	NR		
Thiophosphoryl Chloride	NR		

Thread Cutting Oils		200	95
Titanium Tetrachloride		150	65
Toluene		175	80
Toluenesulfonyl Chloride		125	50
Tomato Juice		212	100
Tributyl Phosphate		75	25
Trichloroacetic Acid	up to 10% in water	200	95
Trichloroacetic Acid	50% in pure water	125	50
1,2,3-Trichlorobenzene		200	95
1,12-Trichloroethane		150	65
Trichloroethylene		285	140
2,4,5-Trichlorophenol		150	65
Tricresyl Phosphate	NR		
Triethylamine		125	50
Trifluoroacetic Acid	50% in water	200	95
Trifluoroacetic Acid		125	50
Trimethylamine	Aqueous Solution or Gas	150	65
Turpentine		285	140
Urea	Aqueous Solution or Solid	250	120
Varnish		250	120
Varsol		250	120
Vegetable Oil		285	140
Vinegar		225	110
Vinyl Acetate		250	120
Vinyl Chloride		200	95
Vinylidene Chloride		200	95
Water		285	140
Water, salt		285	140
Water, sewage		250	120
Whiskey		225	110
Wine		212	100
Xylene		200	95
Zinc Zcetate	Aqueous Solution	250	120
Zinc Bromide	Aqueous Solution or Solid	250	120
Zinc Chloride	Aqueous Solution or Solid	285	140

Zinc Nitrate	Aqueous Solution or Solid	285	140
Zinc Sulfate	Aqueous Solution or Solid	185	140