

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 |

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|-------------------------------|----------------------------|-----|-----|
| 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 | | |

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|--------------------------|---------------------------|-----|-----|
| 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 |