

CORROSION GUIDE

The data in this corrosion guide is based on field service performance, laboratory testing and extrapolated values from our resin manufacturers' recommendations. Data shown is intended as a guide only. It is recommended that for a specific application, testing be done in the actual chemical environment.

The following conditions will effect the suitability of a specific resin laminate:

- Periodic changes in temperature
- Temperature spikes
- Changes in chemical concentrations
- Combinations of chemicals
- Exposure to vapors only
- Exposure to frequent splashes and spills
- Exposure to intermittent splashes and spills
- Frequency of maintenance wash down
- Load bearing or non-load bearing requirements

Chemical Environment	Maximum Recommended Service Temperatures, °F Polyester	Chemical Environment	Maximum Recommended Service Temperatures, °F Polyester
Acetic Acid, to 10%	80	Butyl Acetate	NR
Acetic Acid, to 50%	NR	Butyl Alcohol	NR
Acetic Acid, Glacial	NR	Calcium Carbonate	120
Acetone	NR	Calcium Hydroxide	120
Aluminum Chloride	120	Calcium Hypochlorite	NR
Aluminum Hydroxide	120	Calcium Nitrate	120
Aluminum Nitrate	120	Calcium Sulfate	120
Aluminum Sulfate	120	Carbon Disulfide	NR
Ammonium Chloride	120	Carbon Monoxide Gas	160
Ammonium Hydroxide, 5%	NR	Carbon Dioxide Gas	160
Ammonium Nitrate, to 50%	120	Carbon Tetrachloride	
Ammonium Nitrate, Saturated	NR	Liquid or Vapor	NR
Ammonium Persulfate, to 25%	90	Chlorine, Dry Gas	NR
Ammonium Phosphate	120	Chlorine, Wet Gas	NR
Ammonium Sulfate	120	Chlorine Water	NR
Amyl Alcohol	NR	Chloroform	NR
Barium Carbonate	120	Chromic Acid, to 5%	NR
Barium Chloride	120	Chromous Sulfate	120
Barium Sulfate	120	Citric Acid	120
Benzene	NR	Copper Chloride	170
Benzene Sulfonic Acid 50%	NR	Copper Cyanide	170
Benzoic Acid	120	Copper Nitrate	170
Benzyl Alcohol	NR	Crude Oil, Sour	170
Borax	120	Cyclohexane, Liquid and Vapor	NR
Brine (Sodium Chloride Sol.)	120	Diesel Fuel	90
Bromine, Liquid or Vapor	NR	Ethyl Acetate	NR
Ethyl Alcohol	NR	Phosphoric Acid, Vapor	120
Ethylene Glycol	120	Potassium Aluminum Sulfate	120

Chemical Environment	Maximum Recommended Service Temperatures, °F Polyester	Chemical Environment	Maximum Recommended Service Temperatures, °F Polyester
Fatty Acids	80	Potassium Bicarbonate	100
Ferric Chloride	10	Potassium Carbonate, to 10%	NR
Ferric Sulfate	110	Potassium Chloride	120
Formaldehyde	NR	Potassium Hydroxide	NR
Fuel Oil	80	Potassium Nitrate	120
Gasoline, Aviation and Ethyl	80	Potassium Sulfate	120
Glucose	100	Propylene Glycol	120
Glycerine	100	Sodium Acetate	120
Hexane	90	Sodium Benzoate	120
Hydraulic Fluid (Glycol Based)	NR	Sodium Bicarbonate	120
Hydraulic Fluid Skydraul	NR	Sodium Bisulfate	120
Hydrobromic Acid	NR	Sodium Bisulfite	120
Hydrochloric Acid, up to 15%	80	Sodium Borate	120
Hydrochloric Acid, Concentrated	NR	Sodium Bromide	120
Hydrogen Bromide, Dry Gas	80	Sodium Carbonate, to 10%	70
Hydrogen Bromide, Wet Gas	NR	Sodium Chloride	120
Hydrogen Chloride, Dry Gas	80	Sodium Cyanide	120
Hydrogen Chloride, Wet Gas	80	Sodium Dichromate	120
Hydrogen Fluoride, Sol or Vapor	NR	Sodium Di-Phosphate	120
Hydrogen Peroxide, to 10%	NR	Sodium Hydroxide, 10%	NR
Hydrogen Sulfide, Dry Gas	80	Sodium Hypochlorite, to 5-1/4%	70
Hydrogen Sulfide, Wet Gas	80	Sodium Monophosphate	120
Isopropyl Alcohol	NR	Sodium Nitrate	120
JP-4	80	Sodium Nitrite	120
Kerosene	110	Sodium Sulfate	120
Lactic Acid	120	Sodium Tetraborate	120
Lead Acetate	120	Sodium Thiosulfate	120
Linseed Oil	100	Soy Oil	100
Lithium Chloride	120	Stearic Acid	120
Magnesium Carbonate	120	Styrene	NR
Magnesium Chloride	120	Sulfamic Acid	120
Magnesium Hydroxide	100	Sulfated Detergents	120
Magnesium Nitrate	120	Sulfite Liquor	100
Magnesium Sulfate	120	Sulfur Dioxide, gas-dry	120
Mercuric Chloride	120	Sulfur Dioxide, gas-wet	70
Mercury Metal	120	Sulfur Trioxide, gas-wet or dry	NR
Methyl Ethyl Ketone	NR	Sulfuric Acid, to 25%	80
Mineral Oil	120	Tartaric Acid	120
Monochlorobenzene	NR	Tetrachloroethylene	NR
Naphtha	120	Toluene	NR
Nickel Chloride	120	Trichloroethylene vapor	NR
Nitric Acid, to 5%	100	Trisodium Phosphate	NR
Nitric Acid, Concentrated	NR	Urea, 35%	NR
Nitric Acid, Vapor	100	Vinegar	150
Oleic Acid	120	Water, Distilled	150
Oxalic Acid	120	Water, Tap	120
Paper Mill Liquor	100	Zinc Chloride	120
Phenol Solution or Vapor	NR	Zinc Nitrate	120
Phosphoric Acid	100	Zinc Sulfate	120
Phosphoric Acid, Salts thereof	120		