CORROSION RESISTANCE GUIDE
Pultruded Fiberglass Grating

Chemical Environment	Vinyl Ester (V) Operating Temp, °F	Polyester (P) Operating Temp, °F	Chemical Environment	Vinyl Ester (V) Operating Temp, °F	Polyester (P) Operating Temp, °F
Acetic Acid, 50%	180	150	Lithium Chloride	180	150
Acetone	Amb(2)	N	Magnesium Carbonate	160	Amb
Alcohol	120(2)	120(2)	Magnesium Chloride	180	150
Aluminum Chloride	180	150	Magnesium Hydroxide	140	N
Aluminum Hydroxide	120	Amb	Magnesium Nitrate	160	Amb
Aluminum Nitrate	140	100	Magnesium Sulfate	160	120
Aluminum Sulfate	160	120	Mercuric Chloride	180	150
Ammonium Chloride	160	120	Methyl Ethyl Ketone	N	N
Ammonium Hydroxide, 5%	140	N	Mineral Oil	180	150
Ammonium Nitrate, 50%	160	120	Nickel Chloride	180	120
Ammonium Nitrate, Saturated	160	100	Nitric Acid, 5%	120	100
Ammonium Persulfate, 25%	120	N	Phenol, 10%	Amb(2)	N
Ammonium Phosphate	150	Amb	Phosphoric Acid, 85%	180	140(1)
Ammonium Sulfate	160	120	Phosphoric Acid, Vapor	160	120
Barium Chloride	180	150	Potassium Aluminum Sulfate	180	150
Barium Sulfate	180	150	Potassium Bicarbonate	110	Amb(1)
Benzene	Amb(2)	N	Potassium Carbonate, 10%	110	N
Black Liquor (Pulp Process)	160(2)	N	Potassium Chloride	180	150
Bleach Liquor (Pulp Process)	160(2)	N	Potassium Hydroxide, 10%	120(1)	N
Brine (Sodium Chloride)	180	150	Potassium Nitrate	180	150
Calcium Carbonate	160	120	Potassium Sulfate	180	150
Calcium Hydroxide, 25%	180(1)	150(2)	Propylene Glycol	180	150
Calcium Hypocholrite	180(2)	N	Sodium Acetate	180	150
Calcium Nitrate	180	150	Sodium Benzoate	120	Amb
Calcium Sulfate	180	150	Sodium Bisulfate	180	150
Carbonic Acid	120	Amb	Sodium Borate	180	150
Carbon Tetrachloride	Amb(2)	N	Sodium Bromide	180	150
Chlorine Dioxide	120	N	Sodium Carbonate, 10%	120	N
Chlorine, Wet Gas	N	N	Sodium Chloride	180	150
Chlorine Water	120(2)	N	Sodium Cyanide	160	Amb(2)
Chromic Acid, 10%	Amb(2)	N	Sodium Dichromate	160	Amb
Chromium Sulfate	140(2)	Amb	Sodium Diphosphate	160	120
Citric Acid	180	150	Sodium Hydroxide, 10%	N	N
Copper Chloride	180	150	Sodium Hypocholorite, 5-1/4%	110(1)	Amb(1)
Copper Cyanide Plating	120(1)	Amb(2)	Sodium Nitrate	180	150
Copper Nitrate	180	150	Sodium Sulfate	180	150
Crude Oil, Sour	180	150	Soy Oil	160	120
Ethylene Glycol	180	150	Stearic Acid	160	120
Fatty Acids	180	150	Styrene	N	N
Ferric Chloride	180	150	Sulfite Liquor	160	Amb
Ferric Sulfate	180	150	Sulfur Dioxide, Gas - wet	180	150(1)
Formaldehyde, 35%	150(1)	150(2)	Sulfur Trioxide, Gas - wet	Amb	N
Formic Acid, 25%	100(1)	100(2)	Sulfuric Acid, 25%	180(1)	150(2)
Fuel (Aviation, Diesel, Gasoline)	100	100	Tartaric Acid	160	120
Glycerine	180	150	Toluene	120(2)	N
Green Liquor (Pulp Process)	180(2)	N	Trisodium Phosphate, 50%	180(2)	N
Hydraulic Fluid	140	N	Urea, 35%	110	N
Hydrobromic Acid, 45%	180(2)	N	Vinegar	160	150
Hydrochloric Acid, 15%	180(1)	150(1)	Water, Fresh, Salt, Distilled	180	150
Hydrofluoric Acid, 20%	N	N	White Liquor (Pulp Process)	180(1)	N
Kerosene	160	120	Zinc Chloride (Plating)	75(1)	N
Lactic Acid	160	120	Zinc Nitrate	180	150
Lead Acetate	160	Amb	Zinc Salt	180	150
Lime	180	150	Zinc Sulfate	180	150
Linseed Oil	180	150			

(1) - Splash and Spill Exposure Only

(2) - Infrequent splash and spill exposure with spills immediately cleaned up

Amb - Ambient or room temperature exposure.

N - Not recommended for these conditions

Consult Brown-Campbell Company for corrosion recommendations at concentrations, temperatures, and chemicals not listed.

The corrosive resistance guide provided here is based on extensive experience and knowledge of composites in chemical service. Since actual in-use conditions can differ from referenced conditions and can vary during the usable life of the grating, this guide is intended for general reference use only. The end user is responsible for testing and determining final product suitability. Test coupons are available upon request.