

Fiberglass Grating

Chemical Resistance Guide

Customer Service Specialists have information on chemical resistance for pultruded floor plate.

The following definitions will aid readers using this Chemical Resistance Guide: **AMB** - Ambient or room temperature exposure; **NR** - Not Resistant; - No Data. **NOTE:** Temperature data may not be maximum, but rather upper temperature at which a resin has been tested. This is intended for general use only. **This chart does not contain chemical information for pultruded floor plate.**

* Applies to **SAFPLANK®** & **SAFDECK®** only.

Consult **McNICHOLS** for corrosion recommendations at concentrations, temperatures or chemicals not listed in this guide. The information in this guide is correct to the best of our knowledge. It is based on extensive experience with fiberglass grating in corrosive applications. Because actual use conditions differ and mixtures of corrosives will occur in service, the end user must test for use under actual

conditions. Most of the information in this guide is based on laboratory tests and extrapolated values supplied by resin manufacturers. There are no warranties, expressed or implied, including warranties of merchantability or fitness for any particular purpose. In no event will **McNICHOLS** be liable for incidental or consequential damages, whether arising from alleged negligence, strict liability or otherwise.

Chemical Environment	Vinyl ester SV	Polyester SP	Chemical Environment	Vinyl ester SV	Polyester SP
Acetic Acid 0-50%	160	74	Citric Acid	160	150
Alcohol, Butyl	74	NR	Coconut Oil	160	74
Alcohol, Ethyl 10%	150	NR	Copper Chloride	160	150
Alcohol, Isopropyl 10%	150	-	Copper Cyanide	160	NR
Alcohol, Isopropyl 100%	74	NR	Copper Fluoride	160	NR
Alcohol, Methyl 10%	150	NR	Copper Nitrate	74	150
Alcohol, Methyl Isobutyl	150	NR	Copper Sulfate	160	150
Alcohol, Secondary Butyl	150	NR	Corn Oil	160	74
Alum	160	150	Corn Starch-Slurry	160	74
Aluminum Chloride	160	150	Corn Sugar	160	74
Aluminum Hydroxide 5%	120	NR	Cottonseed Oil	160	74
Aluminum Nitrate	160	150*	Crude Oil, Sour	160	74
Aluminum Potassium Sulfate	160	150	Crude Oil, Sweet	160	74
Ammonia, Aqueous 0-10%	100	-	Cyclohexane	120	74
Ammonia, Gas	100	-	Detergents, Sulfonated	160	74
Ammonium Bicarbonate	120	74	Di-Ammonium Phosphate	160	NR
Ammonium Bisulfite	120	-	Dibutyl Ether	120	NR
Ammonium Carbonate 10%	120	-	Diesel Fuel	160	74
Ammonium Citrate	120	74*	Diethylene Glycol	160	74
Ammonium Hydroxide 5%	120	74	Dimethyl Phthalate	160	NR
Ammonium Hydroxide 10%	120	NR	Diethyl Phthalate	160	NR
Ammonium Hydroxide 20%	120	NR	Dipropylene Glycol	160	74
Ammonium Nitrate 50%	160	150	Dodecyl Alcohol	160	NR*
Ammonium Persulfate 20%	120	NR	Esters, Fatty Acids	160	150*
Ammonium Phosphate	120	NR	Ethylene Glycol	160	150
Ammonium Sulfate	160	150	Fatty Acids	160	150
Arsenious Acid	160	74*	Ferric Chloride	160	150
Barium Acetate	160	NR	Ferric Nitrate	160	150
Barium Carbonate	160	NR	Ferric Sulfate	160	150
Barium Chloride	160	74	Ferrous Chloride	160	150
Barium Hydroxide	120	-	Ferrous Nitrate	160	150
Barium Sulfate	160	150	Ferrous Sulfate	160	150
Barium Sulfide	160	NR	8-8-8 Fertilizer	160	74
Beer	120	74	Fertilizer: Urea Ammon. Nitrate	120	NR*
5% Benzene in Kerosene	160	74*	Flue Gas	160	NR*
Benzene Sulfonic Acid 30%	160	150	Fluosilicic Acid 0-20%	160	NR
Benzoic Acid	160	74	Formaldehyde	160	74
O-Benzoyl Benzoic Acid	160	74*	Formic Acid 10%	160	74
Butylene Glycol	160	150	Fuel Oil	160	74
Butyric Acid 0-50%	160	74	Gas, Natural	160	74
Cadmium Chloride	160	74	Gasoline, Auto	160	74
Calcium Bisulfate	160	150	Gasoline Aviation	160	74
Calcium Carbonate	-	-	Gasoline, Ethyl	160	74
Calcium Chlorate	160	150	Gasoline, Sour	160	74
Calcium Chloride	160	150	Glyconic, Acid	160	74
Calcium Hydroxide	-	-	Glucose	160	150
Calcium Hypochlorite	120	74	Glycerine	160	150
Calcium Nitrate	160	150	Glycol, Propylene	160	150
Calcium Sulfate	160	150	Glycolic Acid 70%	160	74
Calcium Sulfite	160	150	Heptane	160	74
Caprylic Acid	160	74	Hexane	160	74
Carbon Dioxide	160	150	Hexalene Glycol	160	150
Carbon Monoxide	160	150	Hydraulic Fluid	160	74
Carbon Tetrachloride	100	NR*	Hydrobromic Acid 0-25%	160	74
Carbonic Acid	160	150	Hydrochloric Acid 15%	160	NR*
Carbon Methyl Cellulose	120	NR*	Hydrocyanic Acid	160	74
Castor Oil	160	150*	Hydrofluosilicic Acid 10%	160	NR
Chlorinated Wax	160	NR*	Hydrogen Bromide, Wet Gas	160	NR*
Chlorine Dioxide/Air	160	74	Hydrogen Chloride, Dry Gas	160	NR*
Chlorine Dioxide, Wet Gas	160	NR*	Hydrogen Chloride, Wet Gas	160	NR
Chlorine, Dry Gas	160	74	Hydrogen Fluoride, Vapor	74	95
Chlorine, Wet Gas	160	NR	Hydrogen Peroxide 35%	120	ASK
Chlorine, Water	160	NR	Hydrogen Sulfide Dry	160	74* ASK
Chloroacetic Acid 0-50%	100	NR	Hydrogen Sulfide, Aqueous	160	74*
Chromic Acid 20%	120	NR*	Hydrosulfite Bleach	120	NR*
Chromium Sulfate	160	150	Hypochlorous Acid 0-10%	160	ASK

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