

Chemical Resistance Guide

Chemical Environment	% Concentration	Temp °F	Molded Grating			Pultruded Grating	
			VFR	IFR	GP	VFR	IFR
Acetic Acid	25	MAX	C	C	S	C	C
Acetic Acid	50	MAX	C	C	S	C	C
Aluminum Hydroxide	ALL	MAX	C	C	C	C	C
Ammonium Chloride	ALL	120	C	C	C	C	C
Ammonium Bicarbonate	15	120	C	C	S	C	S
Ammonium Bicarbonate	50	120	C	C	S	S	I
Ammonium Hydroxide	20	80	S	N	N	I	N
Ammonium Sulfate	ALL	120	C	C	C	C	S
Benzene	100	150	I	I	N	I	N
Benzoic Acid (SAT)	SAT	MAX	C	C	S	C	C
Borax (SAT)	SAT	MAX	C	C	S	C	S
Calcium Carbonate	ALL	MAX	C	C	S	C	C
Calcium Nitrate	ALL	MAX	C	C	C	C	C
Carbon Tetrachloride	100	80	I	N	N	I	N
Chlorine, Dry Gas*	ALL	MAX	C	C	S	C	S
Chlorine Water (SAT)	SAT	120	C	I	N	I	N
Chromic Acid	50	150	I	N	N	I	N
Citric Acid	ALL	MAX	C	C	C	C	C
Copper Chloride	ALL	MAX	C	C	C	C	C
Copper Cyanide	ALL	140	C	S	I	S	I
Copper Nitrate	ALL	MAX	C	C	C	C	C
Ethanol	10	120	C	S	S	C	S
Ethanol	50	120	C	I	I	C	I
Ethylene Glycol	ALL	ISO	C	C	S	C	S
Ferric Chloride	100	MAX	C	C	C	C	C
Ferrous Chloride	ALL	MAX	C	C	C	C	C
Formaldehyde 0-50%	50	120	S	I	I	S	I
Gasoline	ALL	120	C	C	S	C	S
Glucose	ALL	120	C	C	C	C	C
Glycerin	100	MAX	C	C	S	C	S
Hydrobromic Acid	50	MAX	S	S	I	I	N
Hydrochloric Acid	10	MAX	C	S	S	S	S
Hydrochloric Acid	37	MAX	I	S	I	I	I
Hydrogen Peroxide	30	80	C	N	N	S	N
Lactic Acid	100	MAX	C	C	C	C	C
Lithium Chloride (SAT)	SAT	MAX	N	N	N	N	N
Magnesium Chloride	ALL	MAX	C	C	C	C	C
Magnesium Nitrate	ALL	MAX	C	C	C	C	C

Chemical Environment	% Concentration	Temp °F	Molded Grating			Pultruded Grating	
			VFR	IFR	GP	VFR	IFR
Magnesium Sulfate	ALL	MAX	C	C	C	C	C
Mercuric Chloride	ALL	MAX	C	C	C	C	C
Mercurous Chloride	ALL	MAX	C	C	S	C	S
Nickel Chloride	ALL	MAX	C	C	C	C	C
Nickel Sulfate	ALL	MAX	C	C	C	C	C
Nitric Acid	20	120	S	S	I	I	I
Oxalic Acid	ALL	150	C	C	S	C	S
Perchloric Acid	30	90	S	I	I	I	I
Phosphoric Acid	80	MAX	C	C	C	C	S
Potassium Chloride	ALL	MAX	C	C	C	C	C
Potassium Dichromate	ALL	MAX	C	C	C	C	C
Potassium Nitrate	ALL	MAX	C	C	C	C	C
Potassium Sulfate	ALL	MAX	C	C	C	C	C
Propylene Glycol	ALL	MAX	C	C	S	C	S
Sodium Acetate	ALL	MAX	C	C	C	C	C
Sodium Bisulfate	ALL	80	S	S	I	C	I
Sodium Bromide	ALL	80	C	C	C	C	C
Sodium Cyanide	ALL	80	C	I	I	S	I
Sodium Hydroxide	10	MAX	C	I	N	I	N
Sodium Hydroxide	50	MAX	S	N	N	N	N
Sodium Nitrate	ALL	MAX	C	C	C	C	C
Sodium Sulfate	ALL	MAX	C	C	C	C	C
Sulfuric Acid	10	MAX	C	S	S	C	S
Sulfuric Acid	25	MAX	C	S	S	S	I
Sulfuric Acid	75	100	C	I	I	I	N
Tartaric Acid	ALL	MAX	C	C	S	C	S
Vinegar	ALL	MAX	C	C	S	C	S
Water, Distilled	ALL	MAX	C	C	C	C	C
Zinc Nitrate	100	MAX	C	C	C	C	C
Zinc Sulfate	100	MAX	C	C	C	C	C

- C** = Continuous exposure of the grating to the chemical environment listed at the temperature listed.
- S** = Frequent exposure of the grating to splashes and spills from the chemical environment listed with that environment at the temperature listed.
- I** = Infrequent exposure of the grating to splashes and spills from the chemical environment listed with that environment at the temperature listed and the spill immediately cleaned up or washed from the grating.
- N** = Not recommended for the concentrations and temperatures listed.
- T** = Test MAX temperature is 185°F for molded VFR and pultruded VFR grating, 160°F for molded IFR and pultruded IFR grating, 150°F for molded GP grating.