CORROSION RESISTANCE GUIDE
Molded Fiberglass Grating

Chemical Environment	% Concentration	Temp °F	Molded Grating V	S	I	F	C	X
Acetic Acid	50	Max	C	C	C	C	C	I
Acetone	100	75	S	S	I	I	T	I
Alcohol	100	120	C	C	I	I	I	S
Alum	All	Max	C	C	C	C	C	C
Aluminum Chloride	All	Max	C	C	C	C	C	C
Aluminum Fluoride	20	75	C	C	I	I	I	I
Ammonium Hydroxide	30	75	C	C	N	N	N	N
Ammonium Salts-Neutral	All	120	C	C	C	C	S	S
Ammonium Salts-Aggressive	All	75	S	C	I	I	T	I
Aromatic Solvents	All	75	T	T	N	N	N	N
Barium Salts	All	Max	C	C	C	C	C	C
Benzen	100	140	I	S	I	I	N	I
Black Liquor (Pulp Mill)	All	Max	C	C	I	I	N	I
Bleach Liquor (Pulp Mill)	All	Max	C	C	I	I	N	N
Calcium Hydroxide	25	Max	C	C	S	S	I	I
Calcium Hypochlorite	All	Max	C	C	I	I	N	I
Calcium Salts	All	Max	C	C	C	C	C	C
Carbon Tetrachloride	100	75	C	C	I	I	N	S
Chlorinated Hydrocarbons	100	75	T	T	T	T	T	N
Chlorine Dioxide	Sat	140	C	C	N	N	N	N
Chlorine Water	Sat	120	C	C	I	I	T	I
Chlorine, Wet	Sat	Max	C	C	N	N	N	N
Chlorobenzene	100	75	S	S	N	N	N	N
Chlorobenzene	All	Up to 100	C	C	N	N	N	N
Chloroform	100	75	N	N	N	N	N	N
Chromic Acid	50	140	S	S	S	S	N	N
Citric Acid	All	Max	C	C	C	C	C	C
Copper Cyanide Plating	All	125	C	C	S	S	I	N
Copper Salts	All	Max	C	C	C	C	C	C
Crude Oil (Sweet or Sour)	All	Max	C	C	C	C	C	C
Dichlorobenzene	100	75	T	S	N	N	N	N
Ethers	---	75	T	T	N	N	N	N
Ferric Chloride	100	Max	C	C	C	C	C	C
Ferric Salts	All	Max	C	C	C	C	C	C
Fluoride Salts + HCl	All	75	C	C	S	S	N	I
Fluosilicic Acid	10	75	C	C	S	S	S	S
Formaldehyde	37	150	C	C	I	I	I	I
Formic Acid	25	100	C	C	S	S	I	I
Fuel (Diesel, Jet, Gasoline)	All	100	C	C	C	C	C	C
Glycerine	100	Max	C	C	C	C	C	C
Green Liquor (Pulp Mill)	All	Max	C	C	N	N	N	N
Hydrobromic Acid	48	Max	S	S	S	S	I	I
Hydrochloric Acid	10	Max	C	C	S	S	S	C
Hydrochloric Acid	30	Max	CS	C	S	S	I	I
Hydrochloric Acid (concentrated)	All	Up to 180	I	C	N	N	N	N
Hydrocyanic Acid	All	Max	C	C	I	I	I	I
Hydrofluoric Acid	20	75	S	C	N	N	N	N
Hydrogen Peroxide	30	75	C	C	N	N	N	I
Lactic Acid	100	Max	C	C	C	C	C	C
Lime Slurry	Sat	Max	C	C	C	C	C	C
Lithium Salts	All	Max	C	C	C	C	C	C
Magnesium Salts	All	Max	C	C	C	C	C	C
Maleic Acid	100	Max	C	C	S	S	I	C
Mercury Chloride	100	Max	C	C	C	C	C	C
Nickel Salts	All	Max	C	C	C	C	C	C
Nitric Acid	20	120	C	C	S	S	I	I
Nitric Acid	35	100	C	C	N	N	N	I
Nitric Acid	40	Ambient	I	C	N	N	N	N
Nitric, Hydrofluoric	20:2	75	I	C	N	N	N	N
Nitrous Acid	10	75	C	C	C	C	C	C
Ozone for sewage treatment	---	100	C	C	C	C	C	C
Perchloroethylene	100	75	S	C	N	N	N	I
Phenol	10	75	C	C	N	N	N	N
Phenol	88	Ambient	S	C	N	N	N	N
Phosphoric Acid	85	Max	C	C	C	C	S	C
Phosphoric Acid, Super	115	Max	C	C	I	I	T	S
Potassium Hydroxide	10	120	C	C	I	I	N	N
Potassium Salts	All	Max	C	C	C	C	C	C
Silver Nitrate	100	Max	C	C	C	C	C	C
Sodium Cyanide	All	75	C	C	I	I	I	I
Sodium Hydroxide	50	Max	C	C	I	I	N	N
Sodium Hydroxide	10	Max	C	C	N	N	N	N
Sodium Hypochlorite (Stable)	10	100	C	C	S	S	I	S
Sodium Salts-Neutral	All	Max	C	C	C	C	C	C

Letters denote different levels of exposure of the grating to the chemical environment listed at the temperature listed:
C- Continuous exposure
S - Frequent exposure to splashes and spills
I - Infrequent exposure to splashes and spills and immediate cleaning & washing of grating
N - Not recommended
T - Test

Consult Brown-Campbell Company for corrosion recommendations at concentrations, temperatures, and chemicals not listed. Type S may require benzoyl peroxide-DMA cure system to increase service life.

Max Temperature is 400°F for S; 180°F for V; 150°F for I, F, X; 140°F for C.

The information in this table 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. There are no warranties, expressed or implied, including warranties of merchantability or fitness for any particular purpose. In no event will Brown-Campbell Company be liable for incidental or consequential damages, whether arising from alleged negligence, strict liability or otherwise. Test coupons are available upon request.