

## FRP Grating Corrosion Resistance

Chemical	Type V		Type I		Type O	
	Conc (%)	Temp. (°F/°C)	Conc (%)	Temp. (°F/°C)	Conc (%)	Temp. (°F/°C)
Acetic Acid	50	180/82	50	125/52	5	77/25
Aluminum Hydroxide	100	180/82	100	160/71	All	-
Ammonium Chloride	All	210/99	All	170/77	All	-
Ammonium Bicarbonate	50	160/70	15	125/52	All	-
Methacrylic Acid	99	95/35	-	-	-	-
Ammonium Hydroxide	28	100/38	28	N/R	All	N/R
Ammonium Sulfate	All	210/99	All	170/77	All	-
Benzene	100	92/40	All	N/R	All	N/R
Benzoic Acid	Sat	210/99	Sat	150/66	All	77/25
Borax	Sat	210/99	Sat	170/77	Sat	113/45
Calcium Carbide	All	180/82	All	170/77	All	-
Calcium Nitrate	All	210/99	All	180/82	All	-
Carbon Tetrachloride	100	92/40	100	N/R	100	N/R
Chlorine, Dry Gas	-	210/99	-	140/60	-	N/R
Chlorine Water	Sat	200/93	Sat	80/27	Sat	N/R
Chromic Acid	10	150/65	5	70/21	5	N/R
Citric Acid	All	210/99	All	170/77	All	77/25
Calcium Chloride	All	210/99	All	170/77	All	104/40
Copper Cyanide	All	210/99	All	170/77	All	77/25
Copper Nitrate	All	210/99	All	170/77	All	-
Ethanol	50	90/32	50	75/24	10	77/25
Ethylene Glycol	100	200/93	100	90/32	100	75/24
Hydrofluoric Acid	10	149/65	-	-	-	-
Ferric Chloride	All	210/99	All	170/77	All	104/40
Ferrous Chloride	All	210/99	All	170/77	All	86/30
Formaldehyde	All	100/38	50	75/24	25	86/30
Gasoline	100	180/82	100	95/35	100	75/24
Glucose	100	210/99	100	170/77	All	-
Glycerine	100	210/99	100	150/66	100	-
Hydrobromic Acid	50	150/65	50	120/49	18	-
Hydrochloric Acid	37	150/65	37	75/24	10	86/30
Hydrogen Peroxide	30	150/65	5	100/38	5	N/R

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Lactic Acid	All	210/99	All	170/77	All	77/25
Lithium Chloride	Sat	210/99	Sat	150/66	All	-
Magnesium Chloride	All	210/99	All	170/77	All	104/40
Magnesium Nitrate	All	210/99	All	140/60	All	86/30
Magnesium Sulfate	All	210/99	All	170/77	All	104/40
Mercuric Chloride	100	210/99	100	150/66	100	104/40
Mercurous Chloride	All	210/99	All	140/60	All	104/40
Nickle Chloride	All	210/99	All	170/77	All	104/40
Nickel Sulfate	All	210/99	All	170/77	All	104/40
Nitric Acid	20	130/54	20	70/21	20	N/R
Oxalic Acid	All	210/99	All	75/24	All	N/R
Perchloric Acid	30	100/38	10	N/R	10	N/R
Phosphoric Acid	100	210/99	100	120/49	80	N/R
Potassium Chloride	All	210/99	All	170/77	All	104/40
Potassium Dichromate	All	210/99	All	170/77	All	77/25
Potassium Nitrate	All	210/99	All	170/77	All	104/40
Potassium Sulfate	All	210/99	All	170/77	All	104/40
Propylene Glycol	All	210/99	All	170/77	All	104/40
Sodium Acetate	All	210/99	All	160/71	All	104/40
Sodium Bisulfate	All	210/99	All	170/77	All	-
Sodium Bromide	All	210/99	All	170/77	5	-
Sodium Cyanide	All	210/99	All	170/77	5	N/R
Sodium Hydroxide	25	180/82	N/R	N/R	N/R	N/R
Sodium Nitrate	All	210/99	All	170/77	All	104/40
Sodium Sulfate	All	210/99	All	170/77	All	104/40
Stannic Chloride	All	210/99	All	160/71	All	104/40
Sulfuric Acid	50	183/80	25	75/24	10	-
Tartaric Acid	All	210/99	All	170/77	All	-
Vinegar	100	210/99	100	170/77	All	-
Methanol	10	183/84	N/R	N/R	N/R	N/R
Sea Water	All	210/99	All	158/70	All	113/45
Water, Distilled	100	180/82	100	170/77	All	86/30
Zinc Nitrate	All	210/99	All	170/77	All	104/40
Zinc Sulfate	All	210/99	All	170/77	All	104/40