

Chemical Resistance Tables

Chemical Environment	Concentration (%)	Temperature (°C)	Moulded FRP Grate	
			VEFR	IFR
Acetic Acid	50	Max	C	C
Acetone	100	23	S	I
Alcohols	100	48	C	I
Alum	All	Max	C	C
Aluminium Chloride	All	Max	C	C
Aluminium Flouride	20	23	C	I
Ammonium Hydroxide	30	23	C	N
Ammonium Salts-Neutral	All	48	C	C
Ammonium Salts-Aggressive	All	23	S	I
Aromatic Solvents	All	23	N	N
Barium Salts	All	Max	C	C
Benzene	100	60	I	I
Black Liquor (Pulp Mill)	All	Max	C	I
Bleach Liquor (Pulp Mill)	All	Max	C	I
Calcium Hydroxide	25	Max	C	S
Calcium Hypochlorite	All	Max	C	I
Calcium Salts	All	Max	C	C
Carbon Tetrachloride	100	23	C	I
Chlorinated Hydrocarbons	100	23	T	T
Chlorine Dioxide	Sat	60	C	N
Chlorine Water	Sat	48	C	I
Chlorine Wet	Sat	Max	C	N
Chlorobenzene	100	23	S	N
Chlorobenzene	All	Up to 37	C	N
Chloroform	100	23	N	N
Chromic Acid	50	60	S	S
Citric Acid	All	Max	C	C
Copper Cyanide Plating	All	51	C	S
Copper Salts	All	Max	C	C
Cruid Oil (Sweet or Sour)	All	Max	C	C
Dichlorobenzene	100	23	T	N

Chemical Resistance Tables (cont.)

			Moulded FRP Grate	
Chemical Environment	Concentration (%)	Temperature (°C)	VEFR	IFR
Ethers		23	T	N
Ferric Chloride	100	Max	C	C
Ferric Salts	All	Max	C	C
Flouride Salts+HCl	All	23	C	S
Flousilicic Acid	10	23	C	S
Formaldehyde	37	65	C	I
Formic Acid	24	37	C	S
Fuel (Diesel, Jet, Gasoline)	All	37	C	C
Glycerine	100	Max	C	C
Green Liquor (Pulp Mill)	All	Max	C	N
Hydrobromic Acid	48	Max	S	S
Hydrochloric Acid	10	Max	C	S
Hydrochloric Acid	30	Max	C	S
Hydrochloric Acid (Concentrated)	All	Up to 82	I	N
Hydrocyanic Acid	All	Max	I	N
Hydroflouric Acid	20	23	S	N
Hydrogen Peroxide	30	23	C	N
Lactic Acid	100	Max	C	C
Lime Slurry	Sat	Max	C	C
Lithium Chloride	Sat	Max	N	N
Lithium Salts	All	Max	C	C
Magnesium Salts	All	Max	C	C
Maleic Acid	100	Max	C	S
Mercury Chloride	100	Max	C	C
Nickel Salts	All	Max	C	C
Nitric Acid	20	48	C	S
Nitric Acid	35	37	C	N
Nitric Acid	40	Ambient	I	N
Nitric, Hydroflouric	20:2	23	I	N
Nitrous Acid	10	23	C	C
Ozone (Sewerage Treatment)		37	C	C
Perchloroethylene	100	23	C	N
Phenol	10	23	C	N
Phenol	88	Ambient	S	N
Phosphoric Acid	85	Max	C	C

Chemical Resistance Tables (cont.)

Chemical Environment	Concentration (%)	Temperature (°C)	Moulded FRP Grate	
			VEFR	IFR
Phosphoric Acid (Super)	100	Max	C	I
Potassium Hydroxide	10	48	C	I
Potassium Salts	All	Max	C	C
Silver Nitrate	100	Max	C	C
Sodium Cyanide	All	23	C	I
Sodium Hydroxide	50	Max	C	I
Sodium Hydroxide	10	Max	C	N
Sodium Hypochlorite (Stable)	10	37	C	S
Sodium Salts (Neutral)	All	Max	C	C
Sodium Salts (Aggressive)	All	23	S	I
Sulphur Dioxide	Sat	Max	C	S
Sulphuric Acid	25	Max	C	S
Sulphuric Acid	50	Max	C	S
Sulphuric Acid	75	37	C	I
Toluene	100	48	S	I
Trichloroethane 1,1,1	All	23	S	I
Trisodium Phosphate	50	Max	C	I
Water (Fresh, Salt, Moderate D.L.)	100	Max	C	C
Wet Chlorine/Hydrochloric Acid	10-20	Up to 176	S	N
White Liquor (Pulp Mill)	All	Max	C	I
Zinc Chloride Plating	All	23	C	S
Zinc Salts	100	Max	C	C

- C** - Continuous exposure of the grating to the Chemical Environment list 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 temperature listed.
- T** - Test.

Consult Structural FRP Australia for corrosion recommendations at concentrations and temperatures or chemicals not listed in the guide.

Max.Temp for VEFR-25 is 82°C, for IFR-25 is 65°C.

The information in the corrosion guide is correct to the best of Structural FRP Australia. Because actual use conditions differ and mixtures of corrosives will occur in service, the end user must test under actual conditions. Structural FRP Australia's responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material sold by Structural FRP Australia. Test samples are available upon specific request.

