

# **SATYAM COMPOSITES PVT. LTD.**

505/6, GIDC, Makarpura Industrial Estate, Vadodara – 390010,  
Gujarat, India.

Manufacturers of: FRP/GRP Cable Trays, Gratings, Trefoil Clamps &  
Other FRP Pultruded Sections

## **Chemical Resistance Guide - Molded Grating**

<b>CHEMICAL ENVIRONMENT</b>	<b>% CONCENTRATION</b>	<b>TEMPERATURE °F</b>	<b>VINYL ESTER</b>	<b>ISOPHTHALIC</b>
Acetic Acid	50	MAX	C	C
Acetone	100	75	I	N
Aluminum Hydroxide	ALL	MAX	C	C
Aluminum Chloride	ALL	MAX	+C	C
Ammonium Chloride	ALL	120	C	C
Ammonium Bicarbonate	15	120	C	F
Ammonium Bicarbonate	50	120	F	I
Ammonium Hydroxide	20	80	I	N
Ammonium Sulfate	ALL	120	C	F
Barium Sulfate	ALL	MAX	C	C
Benzene	100	150	I	N
Benzoic Acid (SAT)	SAT	MAX	C	C
Borax (SAT)	SAT	MAX	C	F
Calcium Carbonate	ALL	MAX	C	C
Calcium Hydroxide	25	MAX	F	I
Calcium Hypochlorite	ALL	MAX	I	N
Calcium Nitrate	ALL	MAX	C	C
Carbon Tetrachloride	100	80	I	N
Chlorine - Dry Gas	ALL	MAX	C	F
Chlorine Water (SAT)	SAT	120	I	N
Chromic Acid	50	150	I	N
Citric Acid	ALL	MAX	C	C
Copper Chloride	ALL	MAX	C	C
Copper Cyanide	ALL	140	F	I
Copper Nitrate	ALL	MAX	C	C
Crude Oil (Sweet or Sour)	ALL	MAX	C	C
Diesel Fuel	ALL	100	C	C
Ethanol	10	120	C	F
Ethanol	50	120	C	I
Ethanol Glycol	ALL	150	C	F
Ferric Chloride	100	MAX	C	C
Ferric Nitrate	ALL	MAX	C	C
Ferrous Chloride	ALL	MAX	C	C
Fluorosilicic Acid	10	75	F	I
Formaldehyde (0-50%)	50	120	F	I
Gasoline	ALL	120	C	F

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Glucose	ALL	120	C	C
Glycerin	100	MAX	C	F
Hydrobromic Acid	50	MAX	I	N
Hydrobromic Acid	10	MAX	F	F
Hydrobromic Acid	37	MAX	I	I
Hydrogen Peroxide	30	80	F	N
Lactic Acid	100	MAX	C	C
Lithium Chloride (SAT)	SAT	MAX	N	N
Magnesium Chloride	ALL	MAX	C	C
Magnesium Nitrate	ALL	MAX	C	C
Magnesium Sulphate	ALL	MAX	C	C
Mercuric Chloride	ALL	MAX	C	C
Mercurous Chloride	ALL	MAX	C	F
Nickle Chloride	ALL	MAX	C	C
Nickle Sulphate	ALL	MAX	C	C
Nitric Acid	20	120	I	I
Oxalic Acid	ALL	150	C	F
Perchloric Acid	30	90	I	I
Phosphoric Acid	80	MAX	C	F
Potassium Chloride	ALL	MAX	C	C
Potassium Dichromate	ALL	MAX	C	C
Potassium Nitrate	ALL	MAX	C	C
Potassium Sulfate	ALL	MAX	C	C
Propylene Glycol	ALL	MAX	C	F
Sodium Acetate	ALL	MAX	C	C
Sodium Bisulfate	ALL	80	C	I
Sodium Bromide	ALL	80	C	C
Sodium Cyanide	ALL	80	F	I
Sodium Hydroxide	10	MAX	I	N
Sodium Hydroxide	50	MAX	N	N
Sodium Nitrate	ALL	MAX	C	C
Sodium Sulfate	ALL	MAX	C	C
Sulfuric Acid	10	MAX	C	F
Sulfuric Acid	25	MAX	F	I
Sulfuric Acid	75	100	I	N
Tartaric Acid	ALL	MAX	C	F
Vinegar	ALL	MAX	C	F
Water (Distilled)	ALL	MAX	C	C
Zinc Nitrate	100	MAX	C	C
Zinc Sulfate	100	MAX	C	C

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C = Continuous exposure of the grating to the Chemical Environment listed at the Temperature listed.

F = 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.

MAX Temperature is 185°F for Vinyl grating.

MAX Temperature is 160°F for Isophthalic grating.

MAX Temperature is 150°F for General Purpose grating.

*The corrosion resistance data listed above is for general information only. Resin manufacturers have provided test data which indicates that the specific resin can withstand the corrosion conditions listed above. American Grating believes the data to be true and accurate but no guarantee is expressed or implied as to specific performance. Testing for specific environments is recommended. Responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material sold by American Grating.*