

Chemical Compatibility

The following information is based on full immersion laboratory tests and manufacturer's data. In some environments, splashing may lead to further corrosion than indicated due to the evaporation of water. Regular washdown is recommended in these situations. All data represents the best available information, is believed to be correct, and is not a warranty of product performance. User tests are recommended to determine actual suitability of service, for which AMICO-Seasafe® will gladly supply grating samples. AMICO-Seasafe® does not take responsibility for design or suitability of materials for service intended, nor will AMICO-Seasafe® be held liable for consequential or special damages due to defective material or workmanship including, without limitation, labor charge and/or other expense of damage to properties resulting from loss of materials or profits, or increased expenses of operation.

Chemical Environment	Max. Wt. %	Max. °F	Exposure	
			IFR	VFR
Acetic Acid	50	Max.	C	C
Acetone	100	75	NR	I
Alum	All	Max.	C	C
Aluminum Chloride	All	Max.	C	C
Aluminum Nitrate	All	75	F	S
Ammonium Bicarbonate	15/Sat.	125/130	S	C
Ammonium Carbonate	NR/Sat.	NR	NR	F
Ammonium Chloride	Sat.	170/190	I	C
Ammonium Hydroxide	All	75	I	F
Ammonium Nitrate	Sat.	160/190	F	C
Ammonium Sulfate	Sat.	170/200	F	C
Aromatic Solvents	All	75	NR	T
Barium Salts	All	Max.	C	C
Benzene	100	140	NR	I
Benzoic Acid	Sat.	150/200	F	C
Borax	Sat.	170/200	F	C
Calcium Carbonate	Sat.	170/200	C	C
Calcium Chloride	Sat.	170/200	C	C
Calcium Hydroxide	25	Max.	I	F
Calcium Hypochlorite	All	Max.	NR	F
Calcium Nitrate	Sat.	180/200	F	F
Calcium Salts	All	Max.	C	C
Carbon Tetrachloride	100	75	NR	F
Chlorinated Hydrocarbons	100	75	T	T
Chlorine, Dry Gas		140/170	T	I
Chlorine, Wet Gas	Sat.	Max.	NR	I
Chlorobenzene	100	75	NR	I
Citric Acid	All	Max.	C	C
Copper Salts	All	Max.	C	C
Crude Oil (Sweet or Sour)	All	Max.	C	C
Cyclohexane	NR	NR	NR	NR
Diesel Fuel	100	160/180	C	C
Ethanol	50	75/90	C	C
Ethylene Chloride	NR	NR	NR	NR
Ethylene Glycol	100	90/200	C	C
Fatty Acids	Sat.	180/200	C	C
Ferric Chloride	100	Max.	C	C
Ferric Nitrate	Sat.	170/200	C	C
Ferric Salts	All	Max.	C	C
Fluoboric Acid	NR/Sat.	NR/165	NR	I
Formaldehyde	37	150	F	I
Fuel (Diesel, Jet, Gasoline)	All	100	C	C
Glucose	100	170/200	C	C
Glycerine	100	Max.	C	C
Heptane	100	110/120	C	C
Hexane	100	90/130	C	C
Hydrochloric Acid	10	Max.	F	F
Hydrochloric Acid	30	Max.	F	F
Hydrofluoric Acid	20	75	NR	I
Hydrogen Bromide, Dry	100	190/200	F	F
Hydrogen Bromide, Wet	100	75/130	F	F
Hydrogen Peroxide	30	75	I	F
Hydrogen Sulfide, Dry	100	170/210	C	C
Hydrogen Sulfide, Wet	100	170/210	C	C
Hypochlorous Acid	20	80/150	F	F
Isopropyl Alcohol	NR/15	NR/80	NR	I
Kerosene	100	140/180	C	C
Lactic Acid	100	Max.	C	C
Lead Acetate	Sat.	170/200	C	C
Lead Chloride	Sat.	140/200	C	C
Lead Nitrate	Sat.	—/200	C	C
Lime Slurry	Sat.	Max.	C	C

Chemical Environment	Max. Wt. %	Max. °F	Exposure	
			IFR	VFR
Linseed Oil	100	150/190	C	C
Lithium Chloride	Sat.	150/190	C	C
Lithium Salts	All	Max.	C	C
Magnesium Carbonate	Sat.	140/170	C	C
Magnesium Chloride	Sat.	170/200	C	C
Magnesium Hydroxide	Sat.	150/190	C	C
Magnesium Nitrate	Sat.	140/180	C	C
Magnesium Salts	All	Max.	C	C
Magnesium Sulfate	Sat.	170/190	C	C
Mercuric Chloride	Sat.	150/190	C	C
Mercurous Chloride	Sat.	140/180	C	C
Mineral Oils	100	170/200	C	C
Monochlorobenzen	NR	NR	NR	NR
Naphtha	100	140/170	C	C
Nickel Chloride	Sat.	170/200	C	C
Nickel Nitrate	Sat.	170/200	C	C
Nickel Salts	All	Max.	C	C
Nickel Sulfate	Sat.	170/200	C	C
Nitric Acid	20	120	I	F
Nitric Acid	35	100	I	F
Nitrous Acid	100	75	C	C
Oxalic Acid	All	75/120	C	C
Ozone (Sewage Treatment)		100	C	C
Phosphoric Acid	85	Max.	S	C
Phosphoric Acid, Super	115	Max.	I	S
Potassium Aluminum Sulfate	Sat.	170/200	C	C
Potassium Chloride	Sat.	170/200	C	C
Potassium Dichromate	Sat.	170/200	C	C
Potassium Hydroxide	10	120	NR	F
Potassium Nitrate	Sat.	170/200	C	C
Potassium Permanganate	100	80/210	F	F
Potassium Salts	All	Max.	C	C
Potassium Sulfate	Sat.	170/200	C	C
Propylene Glycol	All	170/200	C	C
Sodium Acetate	Sat.	160/200	C	C
Sodium Benzoate	Sat.	170/200	C	C
Sodium Bicarbonate	Sat.	160/175	C	C
Sodium Bisulfate	All	170/200	C	C
Sodium Bromide	All	170/200	C	C
Sodium Carbonate	10/35	80/160	F	F
Sodium Chloride	Sat.	170/200	C	C
Sodium Cyanide	All	75	F	F
Sodium Hydroxide	50	Max.	NR	F
Sodium Hydroxide	25	Max.	NR	F
Sodium Monophosphate	Sat.	170/200	C	C
Sodium Nitrate	Sat.	170/200	C	C
Sodium Salts, Neutral	All	Max.	C	C
Sodium Sulfate	Sat.	170/200	C	C
Sodium Thiosulfate	All	100/120	C	C
Stannic Chloride	Sat.	160/190	C	C
Styrene	NR	NR	NR	NR
Sulfur Trioxide	100	80/200	F	C
Sulfuric Acid	25	Max.	I	F
Tartaric Acid	Sat.	170/200	F	C
Toluene	100	120	NR	I
Urea	Sat.	130/140	C	C
Vinegar	100	170/200	C	C
Water (Fresh, Salt, Mod. D.I.)	100	Max.	C	C
Water, Sea	Sat.	170/190	C	C
Xylene	NR	NR	NR	NR
Zinc Chloride Plating	All	75	F	F
Zinc Salts	100	Max.	C	C

Number/Number = IFR/VFR; Sat. - saturated solution; C = continuous; F = frequent; I = infrequent; NR = not recommended; T = test

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