

Corrosive Service Guide

Corrodent	Temp °F	Conc. %	Recom. Material	Corrodent	Temp °F	Conc. %	Recom. Material	Corrodent	Temp °F	Conc. %	Recom. Material
Acetic Acid	212	ALL	Monel	Copper Plating Solution (Cyanide)	180		304 SST	Oxygen	75	ALL	Steel
Acetic Anhydride	300		Nickel	Copper Plating Solution (Acid)	75		304 SST	Oleic Acid	<i>SEE FATTY ACIDS</i>		
Acetone	212	ALL	304 SST	Corn Oil	200		304 SST	Oxalic Acid	212	ALL	Monel
Acetylene	400		304 SST	Creosote	200	ALL	304 SST	Photographic Bleaching	100	ALL	304 SST
Alcohols	212	ALL	304 SST	Crude Oil	300		Monel	Palmitic Acid	<i>SEE FATTY ACIDS</i>		
Alum. (Potassium or Sodium)	300	ALL	Hastelloy C	Ethyl Acetate	<i>SEE LACQUER THINNER</i>			Phosphoric Acid	212	ALL	316 SST
Aluminum Chloride	212	ALL	Hastelloy B	Ethyl Chloride, Dry	500		Steel	Phenol	212	ALL	316 SST
Aluminum Sulfate	212	ALL	316 SST	Ethanol	<i>SEE ALCOHOLS</i>			Potassium Compounds	<i>SEE SODIUM COMPOUNDS</i>		
Ammonia, Dry	212	All	304, 316 SST	Ethylene Glycol (Uninhibited)	212	ALL	304 SST	Propane	300		Steel
Ammonium Hydroxide (Ammonia, Aqua)	212	ALL	304, 316 SST	Fatty Acids	500	ALL	316 SST	Rosin	700	100%	316 SST
Ammonium Chloride	300	50%	Monel	Ferrous Chloride	75	ALL	316 SST	Sea Water	75		Monel
Ammonium Nitrate	300	ALL	304 SST	Ferrous Sulfate	300	ALL	304 SST	Soap & Detergents	212	ALL	304 SST
Ammonium Sulfate	212	ALL	316 SST	Formaldehyde	212	40%	316 SST	Sodium Bicarbonate	212	20%	316 SST
Amyl Acetate	300	ALL	304 SST	Formic Acid	300	ALL	316 SST	Sodium Bisulfite	212	20%	304 SST
Aniline	75		Monel	Freon	300		Steel	Sodium Bisulfate	212	20%	304 SST
Asphalt	250		304 SST	Fluorine, Anhydrous	100		304 SST	Sodium Carbonate	212	40%	316 SST
Atmosphere, Industrial and Marine			304 SST	Furfural	450		316 SST	Sodium Chloride	300	30%	Monel
Barium Compounds	<i>SEE CALCIUM</i>			Gasoline	300		Steel	Sodium Chromate	212	ALL	316 SST
Beer	70		304 SST	Glucose	300		304 SST	Salt or Brine	<i>SEE SODIUM CHLORIDE</i>		
Benzene (Benzol)	212		Steel	Glue ph 6-8	300	ALL	304 SST	Sodium Cyanide	212	ALL	304 SST
Benzoic Acid	212	ALL	316 SST	Glycerine	212	ALL	Brass	Sodium Hydroxide	212	30%	316 SST
Bleaching Powder	70	15%	Monel	Hydrobromic Acid	212	ALL	Hastelloy C	Sodium Hypochlorite	75	10%	Hastelloy C
Borax	212	ALL	Brass	Hydrochloric Acid (37-38%)	225	ALL	Hastelloy B	Sodium Nitrate	212	40%	304 SST
Bordeaux Mixture	200		304 SST	Hydrogen Chloride, Dry	500		304 SST	Sodium Nitrite	75	20%	316 SST
Boric Acid	400	ALL	316 SST	Hydrocyanic Acid	212	ALL	304 SST	Sodium Phosphate	212	10%	Steel
Bromine	125	DRY	Monel	Hydrofluoric Acid	212	60%	Monel	Sodium Silicate	212	10%	Steel
Butane	400	ALL	Steel	Hydrogen Fluoride, Dry	175		Steel	Sodium Sulfate	212	30%	316 SST
Butyl Alcohol	<i>SEE ALCOHOLS</i>			Hydrofluogilic Acid	212	40%	Monel	Sodium Sulfide	212	10%	316 SST
Butyric Acid	212		Hastelloy C	Hydrogen Peroxide	125	10-100%	304 SST	Sodium Sulfite	212	30%	304 SST
Calcium Bisulphite	75	ALL	Hastelloy C	Kerosene	300	ALL	Steel	Sodium Thiosulfate	212	ALL	304 SST
Calcium Chloride	212	ALL	Hastelloy C	Lacquers & Thinners	300	ALL	304 SST	Steam			304 SST
Calcium Hydroxide	300	20%	Hastelloy C	Lactic Acid	300	ALL	316 SST	Stearic Acid	<i>SEE FATTY ACIDS</i>		
Calcium Hypochlorite	<i>SEE BLEACHING POWDER</i>			Lime	212	ALL	316 SST	Sugar Solutions	<i>SEE GLUCOSE</i>		
Carbolic Acid	<i>SEE PHENOL</i>			Linseed Oil	75		Steel	Sulfur	500		304 SST
Carbon Dioxide, Dry	800	ALL	Brass	Magnesium Chloride	212	50%	Nickel	Sulfur Chloride	75	DRY	316 SST
Carbonated Water	212	ALL	304 SST	Magnesium Hydroxide (or Oxide)	75	ALL	304 SST	Sulfur Dioxide	500	DRY	316 SST
Carbonates	212		304 SST	Magnesium Sulfate	212	40%	304 SST	Sulfur Trioxide	500	DRY	316 SST
Carbon Disulfide	200		304 SST	Mercuric Chloride	75	10%	Hastelloy C	Sulfuric Acid	212	10%	316 SST
Carbon Tetrachloride	125	ALL	Monel	Mercury	700	100%	Steel	Sulfuric Acid	212	10-90%	Hastelloy B
Chlorine, Dry	100		Monel	Methylene Chloride	212	ALL	304 SST	Sulfuric Acid	212	90-100%	Hastelloy B
Chlorine, Moist	100	ALL	Monel	Methyl Chloride, Dry	75		Steel	Sulfuric Acid, Fuming	175		Carp. 20
Chloroacetic Acid	212	ALL	Monel	Milk, fresh or sour	180		304 SST	Sulfurous Acid	75	20%	316 SST
Chloroform, Dry	212		Monel	Molasses	<i>SEE GLUCOSE</i>			Titanium Tetrachloride	75	ALL	316 SST
Chromic Acid	300	ALL	Hastelloy C	Natural Gas	70		304 SST	Tannic Acid	75	40%	Hastelloy B
Cider	300	ALL	304 SST	Nitric Acid	75	ALL	304 SST	Toluene	75		Steel
Citric Acid	212	ALL	Hastelloy C	Nitric Acid	110	ALL	316 SST	Trichloroacetic Acid	75	ALL	Hastelloy B
Copper (10) Chloride	212	ALL	Hastelloy C					Trichloroethylene	300	DRY	Monel
Copper (10) Nitrate	300	ALL	316 SST					Turpentine	75		316 SST
Copper (10) Sulfate	300	ALL	316 SST					Varnish	150		Steel
								Zinc Chloride	212	ALL	Hastelloy B
								Zinc Sulfate	212	ALL	316 SST