

CORROSIVE SERVICE GUIDE TO MATERIALS

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

In recommending the above materials, consideration has been given to providing good service life without undue cost. Where two or more materials are satisfactory, the least expensive is listed. Consult the factory for information on materials or services not given.

