MICORESTER CORROSION RESISTANCE GUIDE

MICOR

This guide has been prepared to assist customers in determining the suitability of products for applications. Consult with Micor for product recommendations for specific applications. We request that customers inspect and test our products to satisfy themselves as to the suitability for their operating conditions.

CHEMICAL	CONCENTRATION %	TEMP ° F
Acetic Acid	50%	75°
Acetone	10%	75°
Acetic Anhydride	Not Recommended	
Alcohol, Amyl	100%	180°
Alcohol, Ethyl	95%	180°
Alcohol, Methyl	100%	180°
Alum	100%	180°
Aluminum chloride	100%	180°
Aluminum potassium sulfate	100%	180°
Aluminum sulfate	100%	180°
Ammonia, liquid	100%	75°
Ammonia, aqueous	10%	75°
Ammonium bicarbonate	100%	75°
Ammonium carbonate	100%	75°
Ammonium chloride	100%	180°
Ammonium citrate	conc.	170°
Ammonium hydroxide	10%	75°
Ammonium nitrate	all	200°
Ammonium persulfate	all	175°
Ammonium sulfate	all	175°
Amyl acetate	100%	75°
Aniline sulfate	all	75°
Antimony trichloride	all	75°
Arsenous acid	100%	150°
Barium carbonate	all	175°
Barium chloride	all	175°
Barium hydroxide	Not Recommended	
Barium sulfide	all	75°
Benzaldehyde	Not Recommended	
Benzene	100%	75°
Benzene sulfonic acid	100%	175°
Benzoic acid	100%	150°
Bleach liquor	100%	75°
Bromine	Not Recommended	
Butyl acetate	Not Recommended	
Butyric acid	100%	75°
Butyric acid	all	100°
Calcium chloride	all	175°
Calcium chlorate	all	175°
Calcium hydroxide	20%	75°
Calcium hypochlorite	20%	75°
Calcium sulfate	all	175°

CHEMICAL	CONCENTRATION %	TEMP ° F
Camphor	100%	75°
Carbon dioxide	100%	200°
Carbon disulfide	Not Recommended	
Carbon monoxide	all	200°
Carbon tetrachloride	Not Recommended	
Chloracetic acid	50%	75°
Chlorine dioxide	sat	150°
Chlorine gas	100%	75°
Chlorine water	sat	75°
Chlorobenzene`	100%	75
Chloroform	Not Recommended	
Chromic acid	10%	150°
Chromium sulfate	all	200°
Citric acid	all	150°
Copper chloride	all	200°
Copper cyanide	all	200°
Copper nitrate	all	200°
Copper sulfate	all	200°
Diallyl phthalate	all	200°
Dibutyl phthalate	all	200°
Dichlorobenzene	Not Recommended	
Diethylether	Not Recommended	
Diethylene glycol	all	200°
Dipropylene glycol	all	200°
Ethylene Diamine	Not Recommended	
Ethylene dichloride	Not Recommended	
Ethyl Ether	all	75°
Ethyl Chloride	100%	200°
Ethylene Chlorohydrin	all	75°
Ethylene glycol	100%	200°
Fatty acids	all	200°
Ferric acetate	all	200°
Ferric chloride	all	200°
Ferric nitrate	all	200°
Ferric sulfite	all	200°
Ferrous acetate	all	200°
Ferrous chloride	all	200°
Ferrous nitrate	all	200°
Ferrous sulfate	all	200
Fluorine	Not Recommended	
Fluoboric acid*	10%	200°
Fluoborate	10%	200°

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CHEMICAL	CONCENTRATION %	TEMP ° F
Fluosilicic Acid	Not recommended	
Formaldehyde	44%	150°
Formic acid	25%	75°
Gasoline	all	175°
Glycerine	all	200°
Hydrobromic acid	50%	75°
Hydrochloric acid	37%	150°
Hydrofluoric acid*	Not Recommended	
Hydrogen peroxide	25%	75°
Hydrogen sulfide	all	200°
Hypochlorous acid	50%	175°
Isopropyl alcohol	100%	75°
Kerosene	all	175°
Lactic acid	100%	Boil
Lead acetate	all	200°
Lead chloride	all	200°
Lead nitrate	all	200°
Lime slurry	all	200°
Linseed oil	100%	175°
Magnesium carbonate	all	200°
Magnesium chloride	all	200°
Magnesium nitrate	all	200°
Magnesium sulfate	all	200°
Maleic acid	100%	75°
Mercuric chloride	all	200°
Mercury	conc.	220°
Methyl chloride	100%	Boil
Methyl ethyl ketone	20%	75°
Naphtha	100%	200°
Naphthalene	100%	100°
Nickel chloride	all	200°
Nickel nitrate	all	200°
Nickel sulfate	all	200°
Nitric acid	5%	150°
Oleic acid	100%	200°
Oxalic acid	100%	200°
Perchloric acid	10%	75°
Perchloroetrhylene	100%	75°
Phenol	Not Recommended	

CHEMICAL	CONCENTRATION %	TEMP ° F
Phosphoric acid	10%	200°
Phthalic anhydride	100%	175°
Potassium bicarbonate	100%	200°
Potassium chloride	conc.	240°
Potassium cyanide	all	200°
Potassium nitrate	all	200°
Potassium sulfate	all	200°
Potassium dichromate	all	200°
Potassium ferrocyanide	all	200°
Potassium hydroxide	Not Recommended	
Pyridine	Not Recommended	
Refinery Crudes	all	200°
Silver nitrate	all	200°
Sodium acetate	all	200°
Sodium benzoate	all	200°
Sodium bisulfate	all	200°
Sodium bisulfite	all	200°
Sodium bromide	all	200°
Sodium citrate	all	200°
Sodium chloride	all	200°
Sodium ferrocyanide	all	200°
Sodium nitrate	all	200°
Sodium nitrite	all	200°
Sodium sulfate	all	200°
Sodium sulfite	all	200°
Sodium thiocyanate	all	200
Sodium carbonate	Not Recommended	
Sodium hypochlorite	10%	150°
Sodium hydroxide	Not Recommended	
Stearic acid	100%	200°
Sulfite liquors	100%	175°
Sulfur dioxide	100%	150°
Sulfuric acid	50%	175°
Tannic acid	all	200°
Tartaric acid	conc.	220°
Trichlorethylene	Not Recommended	
Trisodium phosphate	Not Recommended	
Zinc chloride	all	200°
Zinc nitrate	all	200°
Zinc sulfate	all	200°

* Synthetic filler recommended satd. = saturated

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