

# MATERIAL SELECTION GUIDE FOR CORROSIVE SERVICE

## TEMPERATURE CONCENTRATION RECOMMENDED

<u>CHEMICAL</u>	<u>*F</u>	<u>%</u>	<u>MATERIAL</u>
ACETIC ACID	212	ALL	MONEL. 430 SS
ACETIC ANHYDRIDE	300	-	NICKEL. MONEL
ACETONE	212	ALL	304 SS
ACETYLENE	400	ALL	304 SS MONEL NICKEL
ALCOHOLS (METHYL.ETHYL)	212	ALL	304 SS
ALUM. (POTASSIUM OR SODIUM)	300	ALL	HAST. C
ALUMINUM ACETATE	-	SAT	304 SS
ALUMINUM CHLORIDE	212	ALL	HAST. B
ALUMINUM SULFATE	212	ALL	316 SS
AMMONIA. DRY	212	ALL	304, 316 SS
AMMONIUM HYDROXIDE (AMMONIA, AOUA)	212	ALL	304, 316 SS
AMMONIUM CHLORIDE	300	58	MONEL
AMMONIUM NITRATE	300	ALL	304 SS
AMMONIUM SULFATE	212	ALL	316 SS
AMYL ACETATE	300	ALL	304 SS, MONEL
ANILINE	75	ALL	MONEL

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ASPHALT	250	ALL	304 SS
BARIUM COMPOUNDS	70	ALL	HAST. C
BEER	70	-	304 SS
BENZENE (BENZOL)	212	-	STEEL (C1018)
BENZINE	-	-	STEEL (C1018)
BENZOIC ACID	212	ALL	316 SS
BLEACHING POWDER	70	20	MONEL
BORAX	212	ALL	BRASS
BORDEAUX MIXTURE	200	-	304 SS
BORIC ACID	212	ALL	316 SS
BROMINE	125	DRY	MONEL, TANTALUM
BUTABIEN	-	ALL	BRASS, 304 SS
BUTANE	70	ALL	STEEL, 304 SS
BUTYL ALCOHOL	212	ALL	304 SS
BUTYRIC ACID	70	5	HAST. C. 304 SS
CALCIUM BISULPHITE	75	ALL	HAST. C. 316 SS
CALCIUM CHLORIDE	212	ALL	HAST. C. 304 SS

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CALCIUM HYDROXIDE	212	50	HAST. C. 317 SS
CALCIUM HYPOCHLORITE	70	20	MONEL
CARBOLIC ACID	212	ALL	316 SS
CARBON DIOXIDE, DRY	212	ALL	BRASS, STEEL (C1018)
CARBONATED WATER	212	ALL	304 SS
CARBONATED BEVERAGES	212	ALL	304 SS
CARBON DISULFIDE	200	-	304 SS
CARBON TETRACHLORIDE	70	ALL	MONEL
CHLORINE, DRY	-	100	MONEL
CHLORINE, MOIST	212	ALL	HAST. C
CHLORACETIC ACID	212	ALL	MONEL
CHLOROFORM, DRY	212	-	MONEL
CHROMIC ACID	212	50	HAST. C. 316 SS
CIDER	212	ALL	304 SS
CITRIC ACID	212	ALL	HAST. C. 316 SS
COAL TAR	212	-	304 SS
COPPER (I) CHLORIDE	212	ALL	HAST. C.

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COPPER (10) NITRATE	300	ALL	316 SS
COPPER (10) SULFATE	300	ALL	316 SS
COPPER PLATING SOLUTION (CYANIDE)	180	-	304 SS
COPPER PLATING SOLUTION (ACID)	75	-	304 SS
CORN OIL	300	-	304 SS
COTTONSEED OIL	300	-	304 SS
CREOSOTE, CRUDE	200	ALL	304 SS, MONEL
CRUDE OIL	300	-	MONEL
ETHYL ACETATE	300	ALL	MONEL
ETHYL CHLORIDE, DRY	500	-	STEEL
ETHYLENE GLYCOL	212	ALL	STEEL
ETHYLENE OXIDE	75	-	STEEL
FATTY ACIDS	500	ALL	316 SS
FERRIC CHLORIDE	75	ALL	HAST. C TANTALUM
FERRIC SULFATE	70	ALL	304 SS
FORMALDEHYDE	212	ALL	304 SS

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FORMIC ACID	150	ALL	316 SS
FREON	-	-	STEEL
FLUORINE, ANHYDROUS	100	-	304 SS
FURFURAL	450	-	316 SS
GALLIC ACID	150	5	MONEL
GASOLINE	70	-	STEEL. 304 SS
GLUCOSE	300	ALL	304 SS
GLUE PH 6-8	300	ALL	304 SS
GLYCERINE	212	ALL	BRASS. 304 SS
GLYCEROL	-	-	BRASS. 304 SS
HYDROBROMIC ACID	212	ALL	HAST. B