

CORROSION CHART (For Reference Only)

Ratings:

1 = Excellent 2 = Good 3 = Fair

	Stainless Steel AISI Type No.			Brass & Navel Bronze	Silicon Bronze	Monel Metal	Copper	Aluminum
	410 416	302 303 304	316					
Acetate Solvents, Crude	2	1	1	3	2	2	2	1
Acetate Solvents, Refined	1	1	1	1	1	1	1	1
Acetate Acid, Crude	-	2	1	-	2	2	2	2
Acetic Acid, Refined	-	2	1	-	2	2	2	1
Acetic Anhydride	-	2	1	-	2	2	2	1
Acetone	1	1	1	1	1	1	1	1
Acetylene	1	1	1	-	-	2	-	1
Alcohols	1	1	1	2	1	1	1	2
Aluminum Sulfate	-	3	2	-	2	2	2	3
Alums	-	3	2	-	2	2	2	1
Ammonia Gas	1	1	1	-	-	-	-	1
Ammonium Chloride	3	3	1	-	2	1	2	-
Ammonium Hydroxide	1	1	1	-	-	3	-	2
Ammonium Nitrate	1	1	1	-	3	3	3	1
Ammonium Phosphate	1	1	1	+	+	2	+	+
Ammonium Phosphate (Neutral)	2	1	1	3	3	2	3	3
Ammonium Phosphate (Acid)	3	2	1	-	3	2	3	3
Ammonium Sulfate	2	1	1	-	3	2	3	-
Asphalt	2	1	1	2	1	1	1	1
Beer	-	1	1	2	2	1	2	1
Benzene or Benzol	1	1	1	1	1	1	1	1
Borax	1	1	1	2	2	1	2	2
Boric Acid	3	2	1	-	2	1	2	1
Calcium Bisulfite	-	2	1	+	2	+	2	+
Calcium Hypochlorite	-	3	2	3	3	3	3	-
Cane Sugar Liquors	2	1	1	2	1	1	1	1
Carbon Dioxide Gas	1	1	1	1	1	1	1	1
Carbon Disulfide	2	1	1	3	-	3	-	1
Carbon Tetrachloride	1	1	1	1	1	1	1	2
Chlorine Gas	2	2	2	2	2	1	2	-
Chlorine (Wet)	-	-	3	-	3	3	3	-
Chromic Acid	3	2	1	-	-	3	-	-
Citric Acid	3	2	1	-	2	2	2	2
Coke Oven Gas	1	1	1	3	3	2	3	2
Copper Sulfate	1	1	1	-	3	3	3	-
Core Oils	1	1	1	1	1	1	1	1
Cottonseed Oil	1	1	1	1	1	1	1	1
Creosote	1	1	1	3	2	1	2	2
Ethers	1	1	1	1	1	1	1	1
Ethylene Glycol	1	1	1	2	1	1	1	2
Ferric Sulfate	1	1	1	-	3	3	3	2
Formaldehyde	1	1	1	-	2	1	2	2
Formic Acid	-	2	1	-	2	2	2	-
Freon	1	1	1	1	1	1	1	2
Furfural	1	1	1	2	2	1	2	1
Gasoline	1	1	1	1	1	1	1	1
Glucose	1	1	1	1	1	1	1	1
Glue	1	1	1	3	1	1	1	3
Glycenne	1	1	1	2	1	1	1	1
Hydrogen Cyanide	3	1	1	-	-	2	-	1
Hydrogen Acid	-	-	-	-	3	1	3	-
Hydrogen Fluoride	3	2	2	3	2	1	2	-
Hydrogen	1	1	1	1	1	1	1	1
Hydrogen Peroxide	1	1	1	-	3	2	3	2
Hydrogen Sulfide (Dry)	2	1	1	-	-	-	-	1
Hydrogen Sulfide (Wet)	3	2	1	3	-	3	-	1
Lacquer Solvents	1	1	1	3	1	1	1	1
Lime-Sulphur	2	1	1	-	3	2	3	-
Magnesium Chloride	3	2	1	3	2	1	2	-
Magnesium Hydroxide	1	1	1	2	1	1	1	3
Magnesium Hydroxide	1	1	1	2	1	1	1	3
Magnesium Sulfate	1	1	1	2	1	1	1	2
Mercury	1	1	1	-	-	2	-	-

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	410 416	302 303 304	316					
Milk	2	1	1	3	3	3	3	1
Molasses	2	1	1	2	1	1	1	1
Natural Gas	1	1	1	2	1	1	1	1
Nickel Chloride	-	3	2	-	3	2	3	-
Nickel Sulfate	3	2	1	3	2	1	2	-
Nitric Acid	2	2	2	-	-	-	-	3
Oxalic Acid	3	2	1	-	2	1	2	-
Oxygen	1	1	1	1	1	1	1	1
Petroleum Oils (Untreated)	3	1	1	3	-	-	-	-
Petroleum Oils (Refined)	1	1	1	1	1	1	1	1
Phosphoric Acid 25%	-	-	1	-	2	2	2	-
Phosphoric Acid 25% 50%	-	-	2	-	0	0	0	-
Phosphoric Acid 50% 85%	-	-	2	-	2	2	2	1
Picric Acid	2	1	1	-	-	-	-	3
Potassium Chloride	3	2	1	3	2	1	2	-
Potassium Hydroxide	1	1	1	-	3	1	3	-
Potassium Sulfate	1	1	1	2	1	1	1	1
Propane	-	-	-	1	1	1	1	1
Rosin (Dark)	1	1	1	2	2	1	2	1
Rosin (Light)	1	1	1	-	-	2	-	2
Shellac	1	1	1	2	1	1	1	1
Soda Ash (Sodium Carbonate)	1	1	1	2	2	1	1	-
Sodium Bicarbonate	1	1	1	1	1	1	1	2
Sodium Bisulfate	-	-	1	-	2	1	2	3
Sodium Chloride	3	2	1	3	2	1	2	2
Sodium Cyanide	1	1	1	1-	-	2	-	-
Sodium Hydroxide	1	1	1	-	3	1	3	-
Sodium Metaphosphate	2	1	1	3	2	1	2	3
Sodium Nitrate	1	1	1	3	2	1	2	1
Sodium Perborate	1	1	1	3	2	1	2	3
Sodium Peroxide	1	1	1	3	2	1	2	3
Sodium Phosphate (Alkaline)	1	1	1	3	2	1	2	3
Sodium Phosphate (Neutral)	1	1	1	2	1	1	1	-
Sodium Phosphate (Acid)	-	2	1	-	2	1	2	-
Sodium Silicate	1	1	1	3	2	1	2	2
Sodium Sulfate	1	1	1	2	1	1	1	1
Sodium Sulfide	1	1	1	-	-	2	-	-
Sodium Thiosulfate	1	1	1	-	-	2	-	1
Stodge Acid	-	-	3	-	2	2	2	-
Sugar Beet Liquors	2	1	1	2	1	1	1	1
Sulfate Liquors	1	1	1	-	-	2	-	-
Sulphur	1	1	1	3	3	3	3	1
Sulphur Chloride	-	3	2	-	-	2	-	-
Sulphur Chloride (Dry)	1	1	1	3	1	1	1	2
Sulphur Dioxide (Wet)	-	2	1	-	2	-	2	3
Sulphuric Acid 15%	-	-	2	-	2	2	2	-
Sulphuric Acid 20%, 75%	-	-	-	-	3	3	3	-
Sulphuric Acid 80%, 95%	3	3	2	-	-	-	-	-
Sulphuric Acid 95%	2	2	2	-	3	-	-	3
Sulphurous Acid	-	3	2	-	2	1	2	-
Tar	2	1	1	2	1	2	1	1
Tartaric Acid	3	2	1	-	2	1	2	2
Toluene or Toluol	1	1	1	1	1	1	1	1
Trichloroethylene	1	1	1	1	1	1	1	1
Trichloromonofluoromethane	1	1	1	1	1	1	1	2
Turpentine	3	1	1	3	1	1	1	1
Varnish	1	1	1	2	2	1	2	1
Vegetable Oils	1	1	1	2	2	1	2	1
Vinegar	3	2	1	-	2	2	2	1
Water (Fresh)	1	1	1	-	2	1	2	1
Water (Salt)	-	2	2	-	2	1	2	2
Whiskey	3	1	1	2	2	2	2	3
Wines	3	1	1	2	2	2	2	3
Xylene br Xylol	1	1	1	1	1	1	1	1
Zinc Chloride	-	-	-	-	2	1	2	-
Zinc Sulfate	3	2	2	3	2	1	2	2