

CORROSION RESISTANCE DATA	Bronze	Aluminum	Carbon Steel	303 SST	316 SST	Buna-N	Neoprene	Teflon	Nylon	Viton
Benzene (Benzol)	1	1	1	1	1	4	4	1	1	3
Black Sulphate Liquor	3		1			1	1	1		1
Bleaching Powder, Wet	2				2	1	1	1	1	1
Borax	1	3	1	1	1	1	1	1	1	1
Boric Acid	1	1	4	1	1	1	1	1	1	1
Brine	2				2	1	1	1	1	1
Bromine, Dry	2	4	4	4	4	4	4	1		2
Bromine, Wet				4	4					2
Butadiene	1			1	1	1	3	1	1	1
Butane	1	1			1	3	2	1		1
Butylene	1					4	3	1		1
Buttermilk				3	1	1	1	1	1	1
Butyl Acetate		1			1	4	4	1		4
Butyl Alcohol			1	3	1	1	1	1	1	1
Butyric Acid	1	1		3	1	1	1	1		4
Calcium Bisulphite	2	3	4	2	1	1	1	1	1	2
Calcium Carbonate	1	1		1	1	1	1	1	1	1
Calcium Chloride	2	3	1	1	1	1	1	1	1	1
Calcium Hydroxide	1	3	1	1	1	1	1	1	1	1
Calcium Sulphate	1	1		3	1	1	1	1	1	1
Calgon				1	1	1	1	1	1	1
Caliche Liquor			1			1	1	1		1
Carbolic Acid	1	1		1	1	4	3	1	1	2
Carbon Disulphide	2	1	1	1	1	4	4	1	1	1
Carbon Tetrachloride	1	3		1	1	1	4	1	1	1
Carbonated Water	2			1	1	1	1	1	1	1
Caster Oil	1	1	1	1	1	1	1	1	1	1
China Wood Oil (Tung)		1	1	1		1	1	1	1	1
Chlorinated Solvents	1	4	1	2	2	1	1	1	1	2
Chloracetic Acid	2	4	4	4	4	3	3	1	1	1
Chloroform	4	4		1	1	4	4	1	1	3
Chlorox						1	1	1	1	1
Chromic Acid		1			1	4	4	1		3
Citric Acid	2	1	4	2	1	1	1	1	1	1
Coffee	1					1	1	1	1	1
Copper Chloride	3			4	4	1	1	1	1	1
Copper Nitrate	3			1	1	1	1	1	1	1
Copper Sulphate	2	4	4	3	1	1	1	1	1	1
Creosote	1	1	1		1	4	4	1	4	1
Cresylic Acid	2	1	3	1	1	3	4	1	4	2
Cyclohexamine						1	1	1		1
Diacetone				3		3	3	1		4
Diamylamine						1	1	1		4
Dichlorethane				3	3		4	1		2
Dichloropentane						3	4	1	1	2

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Diesel Oil, Light						1	3	1	1	1
Diethanolamine						1	1	1	1	4
Diethyl Sulphate						2	2	1		1
Diethylbenzene						4	4	1		3
Diethylene Glycol				1	1	1	1	1	1	1
Dimethyl Phthalate						2	2	1		1
Dipentene						1	1	1		1
Diphenyl						1	1	1		
Dowtherm		1				4	4	1		1
Enamel	1					1	1	1	1	1
Ethanolamine						1	1	1	1	4
Ethers	1	1	1	1	1	4	4	1		4
Ethyl Acetate	1	3	1		1	3	4	1	1	4
Ethyl Benzene						3	4	1	1	2
Ethyl Cellulose						1	1	1		1
Ethyl Chloride	1		1	3	1	1	1	1	1	1
Ethyl Sulphate						1	1	1	1	1
Ethylene Dichloride						4	4	1	1	3
Ethylene Glycol	2	1	1	1	1	1	2	1	1	1
Ethylene Oxide	1					4	4	1	1	3
Fatty Acids		1		1	1	1	2	1	1	1
Ferric Shloride	4	4	4	4	4	1	1	1	1	1
Ferric Nitrate		4		1	1		1			1
Ferric Sulphate	4	4	4	4	3	1	1	1	1	1
Ferrous Chloride	2			4	4	1	1	1	1	1
Ferrous Sulphate	2	1		1	1	1	1	1	1	1
Fish Oils						1	2	1	1	1
Fluoboric Acid		1			1	1	1	1		1
Fluosilicic Acid						1	1	1		3
Formaldehyde	1	1	3	1	1	1	1	1	1	4
Formic Acid	3	4	4	2	3	1	1	1	1	2
Freon	1	1	3		3	2	1	1	1	2a
Fruit Juices	2			3	3	1	1	1	1	1
Fuel Oil	1		1		1	1	2	1	1	1
Fumaric Acid						1	1	1		2
Furfural	1	1	1	1	1	4	2	1		4
Gallic Acid		1		1	1	1	1	1	1	2
Gasoline, Refined	1	1	1	1	1	4	2	1	1	1
Gelatin	1	1		3	1	1	1	1	1	1
Glucose	1	1	1	1	1	1	1	1	1	1
Glue, Acod		1	1	3	1	1	1	1	1	1
Glycerine or Glycerol	1	1	1	1	1	1	1	1	1	1
Grease						1	2	1		1
Heptane				1	1	1	1	1	1	1
Hydrazine, Hydrate						1		1		4

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Hydrobromic Acid	3	4	4	4	4	1	1	1		2
Hydrochloric Acid		4	4		4		1	1		4
Hydrocyanic Acid	4	1	3	1	1	1	1	1	1	1
Hydrofluoric Acid	3	4	4	4	4	4	4			2
Hydroflousilicic Acid	1		4		4		1	1	1	2
Hydrogen Gas (Cold)		1	1		1	1	1	1		1
Hydrogen Gas (Hot)		3	1		1	1	1	1		1
Hydrogen Peroxide	2	1	4	3	3	1	1	1	1	3
Hydrogen Sulphide (Dry)	3	1	1	1	1	1	1	1	1	1
Hydrogen Sulphide (Wet)	3	1	4	2	1	1	3	1		1
Hypochlorites, Sodium						1	4	1	1	1
Hypochlorous Acid						1	1	1	1	1
Ink				3	1			1	3	1b
Iodine, Wet		4		4	4		2	1	1	1
Idoform				1	1			1	1	3
Isobutane				4	1	1	3	1		1
Isooctane						1	3	1		1
Isopropyl Acetate						4	4	1		4
Isopropyl Alcohol						1	1	1	1	1
Isopropyl Ether						1	2	1		4
Kerosene	1		1		1	1	3	1	1	1
Ketchup				1	1	1	1	1	1	1
Ketones						4	4	1	1	4
Lacquers (& Solvents)	1	1		3	1	3	4	1	1	4
Lactic Acid	2		4	1	1	4	4	1	1	2
Lime Slurries	1					1	1	1	1	1
Lime, Sulphur	3					1	1	1	1	1
Linseed Oil	1	1	1	1	1	1	4	1	1	1
Lubricating Oils (Ref)		1	1			1	3			1
Magnesium Chloride	2	4	3	4	1	1	1	1	1	1
Magnesium Hydroxide	1	4	1	1	1	1	1	1	1	1
Magnesium Sulphate	2	2	1	1	1	1	1	1	1	1
Maleic Acid				1	1	1	1	1	1	2
Malic Acid		2		3	2	1	1	1	1	3
Malt Beverages						1	1	1	1	1
Mayonnaise				3		1	1	1	1	1
Melamine Resins				4	4	2	2	1	1	1
Mercuric Chloride		4		4	4	1	1	1		1
Mercury	4	4	1	1	1	1	1	1	1	1
Mercury Salts	4			4	4	1	1	1	1	1
Methyl Alcohol	1	4	1	1	1	1	1	1	1	2
Methyl Chloride	1	4	1	1	1	3	4	1	1	3
Methyl Ethyl Ketone						4	4	1	1	4
Methyl Formate						2	2	1	1	2
Methyl Isobutyl Ketone						4	4	1		4

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Milk	1	1	1	1	1	1	1	1	1	1
Mine Waters (Acid)	3				1	1	1	1		1
Mineral Oil		1	1		1	1	1	1	1	1
Molasses	1			1	1	1	1	1	1	1
Monochloroacetic Acid						3	3	1		4
Monochlorobenzene						4	4	1		2
Naptha				1	1	1	3	1	1	1
Napthalene		2		1	1	4	4	1	1	1
Natural Gas		1	1		1	1	1	1	1	1
Nickel Chloride	4	4		3	3	1	1	1	1	1
Nickel Nitrate		2				1	1	1	1	1
Nickel Sulphate		2				1	1	1	1	1
Nitric Acid		4	4			4	4	1	4	4
Nitrobenzene			1	1	1		4	1		2
Oleic Acid	2			1	1	2	2	1	1	2
Oleum			1	3	1	4	4	1		1
Organic Acids								1	4	3
Organic Esters								1	1	4
Oxalic Acid	2	1	3	1	1	1	1	1	1	3
Oxygen, Cold	1		1	1	1	1	1	1	1	1
Oxygen, Hot		1	1	1	1	4	4	4		1
Palmitic Acid	2	1	1		1	2	2	1	1	2
Parafin	1					1	3	1	1	1
Paraformaldehyde						2	2	1		4
Parahyde						2	2	1		4
Parez 607			4	4	4			1		
Pentane						1	1	1		1
Phenol		1		1	1	2	2	1	4	2
Phosphoric Acid	3		4	3	2	2	1	1		1
Phthalic Acid						3	3	1	1	2
Picric Acid	4	1	1	1	1	3	1	1		2
Pine Gum - Pine Oil					1	1	1	1	1	1
Pitch						3	3	1	1	1
Potassium Alum.						1	1	1	1	1
Potassium Bicarbonate		1		1	1					1
Potassium Bisulfite						1	1	1	1	1
Potassium Bromide		3		3	2	1	1	1		1
Potassium Carbonate	2	4		1	1	1	1	1	1	1
Potassium Chlorate				1	1	1	1	1	1	1
Potassium Chloride	3	1	1	3	1	1	1	1	1	1
Potassium Chromate	1					1	1	1	1	1
Potassium Cyanide		4	1	1	1	1	1	1	1	1
Potassium Piphosphate				1	1	1	1	1	1	1
Potassium Ferricyanide		1		1	1					1
Potassium Hydroxide	2	4		1	1	1	1	1	1	1

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Potassium Iodide						1	1	1	1	1
Potassium Monophosphates				1	1	1	1	1	1	1
Potassium Permanganate				1	1	1	1	1	1	1
Potassium Phosphate						1	1	1	1	1
Potassium Sulphate	2	1	1	1	1	1	1	1	1	1
Potassium Triphosphate				1	1	1	1	1	1	1
Prestone						1	2	1	1	1
Producer Gas		1	1			1	1	1		1
Propane Liquified	1		1	1	1	1	1	1		1
Pyrogallic Acid				3	1			1		2
Pyridine				4		4	4	1		4
Rayon Spin Bath					3			1	1	
Resorcinal								1		2
Rosin Emulsion					1			1	1	1
Salicylic Acid						1	1	1	1	1
Sea Water	2				1	1	1	1	1	1
Sewage		3	3		3	1	1	1		1
Shellac									1	2
Silicon Tetrachloride							4	1		
Silber Bromide				1						1
Silver Nitrate	4			1	1	3	3	1	1	1
Soap Liquids	1		1	1	1	1	3	1	1	1
Shellac									1	2
Silicaon Tetrachloride							4	1		
Silver Bromide				1						1
Silver Nitrate	4			1	1	3	3	1	1	1
Soap Liquids	1		1	1	1	1	3	1	1	1
Sodium Acetate		1		1	1	2	2	1	1	4
Aodium Acid Sulphate						1	1	1	1	1
Sodium Aluminate				1	1	1	1	1	1	1
Sodium Bicarbonate	2	1	3	1	1	1	1	1	1	1
Sodium Bisulphate	3	2	4	1	1	1	1	1	1	1
Sodium Bisulphite	2	1		3	1	1	1	1	1	1
Sodium Borate						1	1	1	1	1
Sodium Bromide		2		1	1					1
Sodium Carbonate	1	4	3	1	1	1	1	1	1	1
Sodium Chlorate		2		1	1					1
Sodium Chloride	3	2	1	2	1	1	1	1	1	1
Sodium Chromate	1					1	1	1	1	1
Sodium Cyanide	4	4	1	1	1	1	1	1	1	1
Sodium Dichromate						1	1	1	1	1
Sodium Fluoride					1			1	1	1
Sodium Hydroxide	4	4	1	1	1	1	1	1	1	4
Sodium Hyprchlorite	4			3	2	3	3	1	1	3
Sodium Monophosphate	2	1		3	1	1	1	1	1	1

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Sodium Nitrate	2	1	1	1	1	1	1	1	1	1
Sodium Nitrite		1		1	1					1
Sodium Orthosilicate						1	1	1	1	1
Sodium Perborate		1			1	1	1	1		1
Sodium Peroxide	3	1		1	1	1	1	1	1	1
Sodium Phosphate		1			1					1
Sodium Polyphosphate				1	1	1	1	1	1	1
Sodium Pyrophosphate						1	1	1	1	1
Sodium Resinate						1	1	1	1	1
Sodium Siccate	1	4	1	1	1	1	1	1	1	1
Sodium Sulphate	2	1	1	1	1	1	1	1	1	1
Sodium Sulphide	3	4	1	3	1	1	1	1	1	1
Sodium Sulphite	2	2		1	1	1	1	1	1	1
Sodium Tetraborate				1	1	1	1	1	1	1
Sodium Tetraphosphate						1	1	1	1	1
Sodium Thiosulphate	3	4		1	1	1	1	1	1	1
Sodium Triphosphate				1	1	1	1	1	1	1
Soybean Oil					1	1	1	1	1	1
Stannic Chloride		4			4		1			1
Starch				1	1	1	1	1	1	1
Steam	1	1	1		1	4	4	1	4	3
Stearic Acid	3	1		2	1	1	3	1	1	1
Sugar Liquids				1	1	1	1	1	1	1
Sulphur, Molten	4	1	1	1	1	1	1	1	1	1
Sulphur Chloride	1	4			4	4	4	1	1	1
Sulphur Dioxide, Dry	3	1	1	1	1	1	1	1	1	1
Sulphur Dioxide, Wet	4	1		2	1		1			1
Sulphur Troxide, Dry		1	1				4		1	1
Sulphuric Acid 2-40%	3	2	4	4	2	4	1	1	3	1
Sulphuric Acid 40%	3	2	4	4	2	4	1	1	3	1
Sulphuric Acid 93-98%	4	4	3	2	2	4	4	1	4	2
Sulphurous Acid	4	2	1	3	1	2	2	1	2	1
Talc Slurry						1	1	1	1	1
Tallow, Molten						1	1	1	1	1
Tannic Acid	1	4		1	1	1	1	1	1	1
Tannin						1	1	1	1	1
Tar	1	1	1		1	3	3	1	1	1
Tartaric Acid	1	1	4	3	1	1	1	1	1	1
Tetraphosphoglucosate					1	1	1	1		1
Thiamin Hydrochloride								1		1
Toluene	1	1	1	1	1	3	4	1	1	3
Trichlorethylene	1	1		1	1	4	4	1		
Trichloroacetic Acid	2						2	1		3
Trichloroethylene	1	1		1	1	3	4	1		3
Triethanolamine		2				1	1	1	1	4

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Triethylamine	1					1	1	1	1	4
Trisodium Phosphate		4				1	1	1	1	1
Turpentine	3	1		1	1	4	2	1	1	1
Varnish	1			1	1	3	1	1	1	1
Vinegar	2	3	3	3	1	1	1	1	1	1
Water Acid Mine			4		1		1	1		1
Water Salt	3	2	4	2	1					1
Whiskey	2	2	4	1	1	1	1	1	1	1
Wine	2	2	4	1	1	1	1	1	1	1
Xylene	1	1		1	1	4	4	1	1	3
Zeolita						1	1	1	1	1
Zinc Acetate						1	1	1	1	1
Zinc Ammonium Chloride						1	1	1	1	1
Zinc Chloride	4	4		4	2	1	1	1	1	1
Zinc Hydrosulphite				1	1	1	1	1	1	1
Zinc Sulphate	2	1		2	1	1	1	1	1	1

KEY: 1 - Excellent
 2 - Good
 3 - Fair
 4 - Unsatisfactory
 Blank - Insufficient Data

a - Good for all freons except #22 which is (4).
 b - Good unless oniline base ink.

NOTE: When using this table, please remember that in any given case, many factors such as solution, concentration, temperature, degree of agitation and presence of impurities influence the rate of corrosion. We suggest these ratings be used as a first approximation for your requirements rather than the final answer.