



**CORROSION AGENTS TO MATERIALS**

AGENT	Aluminum	Brass	Bronze	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Acetate Solvents: Crude	1	X	X	2	2	1	1	A	X	T
Pure	1	1	1	X	1	1	1	A	X	T
Acetic Acid: 80%	3	X	X	X	1	1	1	X	X	TEVNB
50%	2	X	X	X	2	2	1	X	X	TEVNB
20%	2	X	X	X	2	2	1	X	X	TEVNB
10%	2	X	2	X	2	1	1	X	X	TEVNB
Acetic Anhydride	2	X	2	2	2	2	2	X	X	TNB
Acetone	1	2	2	2	1	1	1	A	X	TE
Acetylene	1	X	X	2	2	1	1	X	X	TEVNB
Alcohols: Amyl Alcohol	2	2	2	2	1	2	2	A	A	TEVNB
Benzyl Alcohol	2	2	2	2	1	1	1	X	A	TVB
Butyl Alcohol	1	2	1	2	1	1	1	A	A	TEVN
Diacetone Alcohol	1	1	2	2	1	2	2	X	A	TE
Ethyl Alcohol	1	2	2	2	2	2	2	X	A	TEVNB
Hexyl Alcohol	-	-	-	-	-	-	-	A	-	-
Isobutyl Alcohol	-	-	-	-	-	-	-	A	-	-
Isopropyl Alcohol	2	2	2	2	2	2	2	A	A	TEVNB
Methyl Alcohol-Methanol	2	2	2	2	2	2	2	A	A	TENB
Octyl Alcohol	-	-	-	-	-	-	-	A	-	-
Propyl Alcohol	2	2	2	2	2	1	1	X	A	TEVNB
Aluminum Chloride - Aqu.	X	X	X	X	X	X	X	A	A	TEVNB
Fluoride - Sat.	2	-	-	X	2	X	2	X	A	TEVNB
Nitrate - Sat.	3	X	-	X	-	2	2	A	A	TEVNB
Potassium Sulfate - Alum.	2	2	2	X	2	X	2	X	A	TEVNB
Sulfate - Sat.	X	X	2	X	2	-	2	A	A	TEVNB
Ammonia Anhydrous	1	X	X	1	1	2	1	A	X	TENB
Gas	X	X	X	1	X	1	1	A	X	TENB
Nitrate	-	-	-	-	-	-	-	X	-	-
Ammonium Bifluoride	-	X	-	X	2	-	-	X	A	TEVB
Carbonate - Sat.	2	X	X	2	2	2	2	A	A	TEVNB
Casenate	-	-	-	-	-	-	-	A	-	-
Chloride - Sat.	X	X	2	X	2	X	X	A	A	TEVNB
Hydroxide - Sat.	2	X	X	1	X	2	2	A	A	TEVNB
Nitrate	2	X	X	X	X	-	-	A	A	TENB
Phosphate - 10-40%	X	X	X	X	2	1	2	A	A	TEVNB
Sulfate - 10-40%	X	X	3	X	2	X	2	A	A	TEVNB
Aniline	-	X	2	X	2	1	1	X	X	TV
Arsenic Acid	X	X	2	X	X	2	2	X	A	TEVNB
Asphalt	-	-	-	2	-	-	2	X	X	TV
Barium Carbonate - Sat.	X	2	2	2	2	2	2	A	A	TEVNB
Chloride - Sat.	-	2	2	-	2	X	-	A	A	TEVNB
Hydroxide - Sat.	X	2	X	2	1	2	2	A	A	TEVNB
Sulfate	2	2	2	X	2	2	2	A	A	TEVNB
Sulfide	X	X	X	2	X	2	2	A	A	TEVNB
Beer	1	2	2	2	1	1	1	A	A	TEVNB
Benzaldehyde	2	2	2	X	2	2	2	X	X	TE
Benzene, Benzol	1	2	2	2	2	2	2	A	X	TV
Benezine	-	-	-	-	-	-	-	A	X	-
Benzoic Acid	2	2	2	X	2	2	2	X	X	TVN
Bleach - 12.5 % Active Chlorine	X	-	-	X	-	-	X	X	A	TEVN

Ratings given are based at 70°F.

**Legend - METAL:** 1 - Excellent; 2 - Good; 3 - Fair; X - Not Recommended; and - - Contact Factory

**NON-METAL:** A - Acceptable; X - Not Recommended; and - - Contact Factory **GASKET/SEAL MATERIAL:** T - Teflon; V - Viton; E - EPDM; N - Neoprene; and B - Buna N



**CORROSION AGENTS TO MATERIALS**

AGENT	Aluminum	Brass	Bronze	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Borax	X	2	2	2	1	1	1	X	A	TEVNB
Boric Acid	1	X	2	X	2	-	-	X	A	TEVNB
Brine Acid	-	2	2	-	-	-	-	X	A	TEVNB
Bromic Acid	X	X	X	-	X	-	-	X	A	TEVN
Bromine Liquid	2	-	-	-	-	X	X	X	X	TV
Butadiene, Butylene	2	2	2	2	1	2	2	X	X	TVNB
Butane	2	2	2	1	1	2	2	X	X	TV
Butyl Acetate	1	2	2	2	2	2	2	A	X	T
Butyric Acid	2	2	X	X	2	2	2	X	A	TV
Calcium Bisulfate	X	-	X	X	X	X	2	X	A	T
Bisulfide	-	-	-	-	2	-	2	A	A	TVB
Bisulfite	X	X	2	X	X	-	2	X	A	TVNB
Carbonate	X	2	2	2	2	1	2	A	A	TEVB
Chloride - Sat.	-	2	-	2	2	-	-	A	A	TEVNB
Hydroxide - Sat.	X	2	X	2	2	2	2	A	A	TEVNB
Hypochlorite - Sat.	X	X	X	X	X	X	2	X	A	TEV
Carbon Bisulfide	1	X	2	2	X	2	2	A	X	TV
Dioxide - Dry	1	1	2	2	1	2	2	A	A	TENB
Dioxide - Wet	1	X	-	3	-	2	2	X	A	TENB
Disulfide	1	X	2	2	X	2	2	A	X	TV
Monoxide	1	1	1	2	1	1	1	A	A	TEVNB
Tetrachloride	X	-	1	2	1	1	-	A	X	TV
Carbonic Acid	1	2	2	2	3	2	2	X	A	TEVNB
Castor Oil	2	2	2	2	1	2	2	X	A	TEVNB
Caustic Potash	X	-	-	X	-	-	2	A	A	TEVNB
Cellosolves	2	2	2	2	2	2	2	X	A	TE
Chlorine - Liquid	-	-	-	2	2	-	3	X	X	TV
Chloroform	-	-	-	X	1	-	-	X	X	TV
Chlorosulfonic Acid	-	X	X	2	2	X	X	X	X	T
Clorox - Bleach, 5.5% CL	X	-	-	X	-	-	2	X	-	TEVB
Chromic Acid - 50%	2	X	X	X	X	3	-	X	X	TVNB
Citric Acid	3	X	X	X	2	-	-	X	A	TEVNB
Coke Oven Gas	2	3	3	2	2	2	2	X	X	TEVN
Copper Chloride	X	X	X	X	X	X	X	A	A	TEVNB
Cyanide	X	X	X	-	X	2	2	X	-	TEVNB
Sulfate	X	X	X	X	X	-	2	A	A	TEVNB
Crylic Acid - Conc.	2	2	X	2	3	2	2	X	X	TEV
Cyclohexane	2	2	2	2	1	2	2	A	X	TVB
Detergents	2	2	2	2	-	1	2	A	A	TEVNB
Dextrose	2	-	-	-	2	-	-	A	A	TEVNB
Diesel Fuels	1	1	1	2	-	1	1	A	X	TVB
Diethylamine	2	-	X	X	1	2	2	X	A	TN
Disodium Phosphate	-	-	-	1	-	-	1	A	A	TEV
Ethers	2	2	2	2	2	1	1	A	X	TB
Ethyl Acetate	-	-	2	2	2	2	2	A	X	T
Chloride	-	-	2	2	2	-	1	A	X	TEVB
Ethylene Chloride	-	-	-	2	2	-	-	A	X	TV
Dichloride	-	2	X	2	1	2	2	A	X	TV
Glycol	1	2	2	2	2	2	2	A	X	TEVNB
Oxide	1	X	X	2	2	2	2	X	X	T

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Fatty Acids	1	3	3	X	2	-	1	A	A	TVNB
Ferric Chloride	X	X	2	X	X	X	X	X	A	TEVNB
Hydroxide	-	-	-	-	2	1	1	A	-	TEVNB
Nitrate - 10-50%	X	X	X	X	X	2	2	X	A	TEVNB
Sulfate	X	X	X	X	2	-	-	X	A	TEVNB
Ferrous Chloride - Sat.	X	X	2	-	X	X	X	X	A	TEVNB
Sulfate	2	2	2	X	2	2	-	X	A	TEVNB
Fluoric Acid	X	-	-	1	2	-	-	X	A	TEVNB
Formaldehyde - 50%	-	2	2	X	2	1	1	X	A	TEN
Formic Acid - Anhyd.	1	X	2	X	2	-	-	X	A	TEVN
Freon 11	2	2	2	X	1	2	2	A	X	TVNB
12	2	2	2	X	2	2	2	A	X	TVNB
22	2	2	2	X	2	2	2	A	X	TN
Fruit Juices	2	2	3	X	1	2	2	A	A	TVNB
Fuel Oil	2	2	2	2	2	2	2	A	X	TVNB
Furfural	2	2	2	2	2	2	2	A	X	TEN
Gasoline Refined	2	2	2	2	2	2	2	A	X	TVNB
Sour	X	2	2	2	X	2	2	A	X	TVNB
Gelatin	2	2	2	X	2	2	2	A	A	TEVNB
Glucose	2	2	2	2	2	2	2	A	A	TEVNB
Glue	2	2	2	2	2	-	2	-	A	TEVNB
Glycerine	1	1	2	2	1	1	1	A	A	TEVNB
Glycols	2	2	2	2	2	2	2	A	A	TEVNB
Heptane	2	2	2	2	2	2	2	A	X	TVNB
Hexane	2	2	2	2	2	1	1	A	X	TVNB
Hydrobromic Acid 50%	X	X	X	X	X	X	X	X	A	TEV
20%	X	X	X	X	X	X	X	X	A	TEV
20%	X	X	X	X	3	X	X	X	A	TEVNB
38%	X	X	X	X	X	X	X	X	A	TEVN
Hydrocyanic Acid	2	X	X	2	2	2	2	X	A	TEVN
Hydrofluosilicic Acid - 10-50%	X	2	X	X	2	X	2	X	-	TEVNB
Hydrogen Chloride - Dry Gas	X	2	-	2	1	-	-	X	A	TEVN
Gas	1	1	1	-	1	1	1	X	A	TEVNB
Peroxide - 50%	-	X	X	X	2	-	-	X	A	TEV
Sulfide - Aqu.	-	-	-	-	2	X	2	X	A	TE
Hypochlorous Acid	X	X	X	X	X	X	X	X	X	TEV
Iodine	1	X	X	X	1	X	X	X	A	TEV
Isopropyl Ether	-	2	2	-	2	1	2	A	X	T
Jet Fuel - JP4, JP5	2	1	2	2	2	2	2	X	X	TV
Kerosene	2	2	2	2	2	2	2	X	X	TVNB
Ketones	2	2	2	2	2	2	2	A	X	T
Lactic Acid 25%	3	2	2	X	X	-	-	A	A	TEVN
80%	2	2	X	X	-	-	-	A	A	TEVN
Lard Oil	2	-	2	3	2	2	2	A	A	TVB
Lead Acetate	X	X	X	X	2	2	2	X	A	TENB
Chloride	X	-	-	-	-	2	2	X	-	TVNB
Sulfate	X	-	-	X	2	2	2	X	-	TEVNB
Lime Sulphur	X	X	X	X	2	2	2	X	A	TEVN
Linoleic Acid	2	X	3	X	2	2	2	X	A	TVB
Linseed Oil	2	2	2	2	2	2	2	A	A	TVNB

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**CORROSION AGENTS TO MATERIALS**

AGENT	Aluminum	Brass	Bronze	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Liquors: Black Liquor	X	X	X	-	2	2	2	X	A	TEVNB
Green Liquor	-	-	-	2	-	-	-	-	A	TEVNB
Sugars Liquors Cane	1	2	1	2	2	2	2	A	A	TEVNB
Beet	1	2	1	2	1	1	1	A	A	TEVNB
Sulfate Liquor	2	X	X	3	2	-	2	X	A	TVNB
Sulfite Liquor	X	X	-	X	X	2	2	X	X	TVNB
Tanning Liquor	1	-	2	-	-	1	1	X	A	TVNB
White Liquor - Pulp	2	-	X	X	X	2	2	X	A	TEVNB
Lubricants - Oil	2	1	-	2	2	2	2	A	X	TVNB
Magnesium Carbonate	2	-	-	-	2	2	2	X	A	TEVNB
Chloride	X	X	2	-	-	-	-	X	A	TEVNB
Hydroxide	2	2	2	2	2	1	1	X	A	TEVNB
Nitrate	2	2	2	2	2	2	2	X	A	TEVNB
Oxide	-	-	-	-	-	-	-	X	-	-
Sulfate	2	-	2	-	1	2	2	X	A	TEVNB
Maleic Acid	-	2	3	X	-	-	2	X	A	TEV
Mercuric Chloride	X	X	X	X	X	X	-	X	A	TEVB
Cyanide	X	X	X	X	2	2	2	X	A	TEVB
Mercury	X	X	X	2	-	1	1	A	A	TEVNB
Methane	1	1	2	2	1	1	1	A	X	TEVNB
Methanol	2	2	2	2	2	2	2	A	A	TENB
Methyl Bromide	X	-	-	2	-	2	2	X	X	TV
Ethyl Ketone	2	2	2	2	2	2	2	A	X	TE
Isobutyl Ketone	2	2	2	2	2	2	2	A	X	T
Methacrylate	2	-	-	X	-	2	2	X	A	T
Methylene Chloride	-	2	2	2	-	-	-	A	X	T
Milk	1	X	X	2	X	1	1	A	A	TEVNB
Mineral Oil	2	1	-	2	1	1	2	A	A	TVNB
Muriatic Acid	X	-	-	-	X	X	X	X	A	TV
Napthalene	2	2	2	2	2	1	1	A	A	TV
Naptha	2	2	2	2	2	2	2	A	X	TVB
Nickel Chloride	X	X	X	X	2	-	-	X	A	TEVNB
Sulfate	X	X	-	-	-	2	2	X	A	TEVNB
Nitric Acid 100%	1	X	X	X	X	2	-	X	X	TV
50%	X	X	X	X	X	2	-	X	X	TV
30%	X	X	X	X	X	1	-	X	X	TV
Nitrobenzene	1	2	2	2	2	2	2	A	A	T
Oils: Castor Oil	2	2	2	2	1	2	2	A	A	TEVNB
Coconut Oil	2	-	2	3	2	2	2	A	A	TVB
Corn Oil	2	2	2	2	2	-	2	A	A	TVNB
Cotton Seed Oil	2	2	2	2	1	2	2	A	A	TVNB
Fuel Oil	2	2	2	2	2	2	2	A	X	TVNB
Linseed Oil	2	2	2	2	2	2	2	A	A	TVNB
Mineral Oil	2	1	-	2	1	1	2	A	A	TVNB
Silicon Oil	2	1	2	2	-	2	2	A	A	TVNB
Vegetable Oil	2	2	2	2	1	1	1	A	X	TVNB
Oleic Acid	2	3	2	2	1	-	1	A	X	TB
Oleum	2	X	X	2	X	2	2	X	X	TV
Oxalic Acid - Sat.	2	-	2	X	2	X	X	X	A	TEV
Oxygen	2	2	2	2	2	2	2	X	X	TEVNB

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Palmitic Acid - Sat.	2	3	2	3	2	2	2	X	A	TVB
Paraffin	2	2	2	2	2	2	2	A	A	TVNB
Perchloroethylene	2	2	2	2	1	-	-	X	X	TV
Petrolatum	2	-	2	3	2	2	2	A	-	TVNB
Phenol - Carboic Acid	1	1	X	2	1	-	1	X	X	TV
Phosphoric Acid 25-50%	X	X	2	X	X	-	-	X	A	TEVN
50-85%	X	X	X	X	3	-	-	X	A	TEV
Photographic Solutions	-	-	-	X	1	1	1	X	X	TVNB
Phthalic Anhydride	-	2	2	2	1	1	1	X	X	TEV
Picric Acid	1	X	X	X	X	2	2	X	-	TEVNB
Plating Solutions: Brass Plating Solution	-	-	-	-	-	-	2	X	A	TEVNB
Cadium Plating Solution	-	-	-	-	-	-	2	X	A	TEVNB
Chrome 40% Plating Solution	X	2	2	X	X	2	2	X	A	TEVN
Copper (Cyanide) Plating Solution	-	-	-	-	-	-	-	X	A	TEVNB
Gold Plating Solution	-	-	-	-	-	-	1	X	A	TEVNB
Iron Plating Solution	-	-	-	-	-	-	-	X	A	TEVB
Lead Plating Solution	-	-	-	-	-	1	1	X	A	TEVNB
Nickel Plating Solution	-	-	-	-	-	1	1	X	A	TEVNB
Silver Plating Solution	-	-	-	-	-	1	1	X	A	TEVNB
Tin Plating Solution	-	-	-	-	-	-	3	X	A	TEVNB
Zinc Plating Solution	-	-	-	-	-	-	-	X	A	TEVNB
Potassium Acetate	X	X	X	2	-	-	-	A	A	TEVB
Bicarbonate - 30%	X	2	-	2	2	1	1	A	A	TEVNB
Carbonate - 50%	X	2	X	2	2	1	1	A	A	TEVNB
Chlorate - 30%	2	X	X	2	2	2	1	X	A	TEVNB
Chloride - 30%	X	X	2	2	1	-	-	A	A	TEVNB
Chromate - 30%	2	2	2	-	2	2	2	X	A	TEVB
Cyanide Solution - 30%	X	X	X	2	2	2	2	X	A	TEVNB
Dichromate - 30%	1	2	2	2	2	1	1	X	A	TEVB
Hydroxide - 90%	X	X	X	-	2	X	-	X	A	TENB
Nitrate - 80%	1	2	2	2	2	2	2	X	A	TEVNB
Permanganate - 20%	2	2	2	2	2	2	2	X	A	TEVN
Sulfate - 10%	1	2	2	2	1	1	1	A	A	TEVNB
Propane	1	1	1	2	1	2	2	X	X	TVB
Propylene Glycol	2	2	2	2	2	2	2	A	A	TVNB
Oxide - 90%	-	-	-	-	-	1	1	X	X	TE
Pyridine	2	2	2	2	2	2	2	A	X	T
Pyrogalllic Acid	2	2	2	2	2	2	2	X	X	TVNB
Silver Nitrate	X	X	X	X	X	2	1	X	A	TEVNB
Soap Solutions	2	2	2	2	2	2	2	A	A	TEVNB
Sodium Acetate	1	2	2	X	2	2	2	A	A	TEN
Bicarbonate - 20%	2	2	2	3	1	1	1	A	A	TEVNB
Bisulfate	X	-	2	2	-	-	-	A	A	TEVNB
Bisulfite	X	2	X	X	-	-	-	A	A	TEVNB
Borate	2	2	2	3	2	2	2	A	A	TEVNB
Carbonate	X	2	-	2	1	-	2	A	A	TEVNB
Chlorate - 50%	2	2	2	X	1	2	2	X	A	TEVNB
Chloride - 30%	X	2	2	2	1	-	-	X	A	TEVNB
Cyanide	X	X	X	2	X	-	-	A	A	TEVNB
Dichromate	2	X	X	2	-	2	2	X	A	TE

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AGENT	Aluminum	Brass	Bronze	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Sodium Acetate <i>continued</i> :										
Hydroxide - 70%	X	X	X	3	1	2	2	X	A	TENB
Hydroxide - 50%	X	X	3	3	1	1	-	X	A	TENB
Hydroxide - 30%	X	2	3	2	1	1	1	X	A	TENB
Hypochlorite	X	X	X	X	X	-	-	X	A	TEV
Metaphosphate	X	X	2	X	2	2	2	X	X	TEVNB
Nitrate - 40%	1	2	-	2	2	1	1	A	A	TENB
Perborate - 10%	2	X	2	2	2	2	2	X	A	TEVNB
Peroxide - 10%	2	X	X	2	2	2	2	X	A	TEVNB
Silicate	1	2	2	2	2	2	2	A	A	TEVNB
Sulfate	-	2	2	2	-	-	1	A	A	TEVNB
Sulfide - 50%	X	X	X	2	2	-	2	X	A	TEVNB
Thiosulphate	2	X	X	X	2	2	2	A	A	TEVNB
Stannic Chloride	X	X	X	X	X	X	X	X	A	TEVNB
Stannous Chloride	X	X	X	X	-	X	-	X	X	TEVNB
Steam	-	-	-	-	-	-	-	X	-	-
Stearic Acid	2	3	2	3	3	2	1	A	A	TVNB
Stoddard's Solvent	2	2	2	2	2	2	2	X	A	TVB
Sulfur Chloride	X	-	X	X	X	-	-	X	X	TV
Dioxide - Dry	2	2	2	1	2	-	2	X	A	TE
Trioxide	2	2	X	2	2	-	2	X	X	TEV
Sulfuric Acid to 10%	X	2	X	X	X	X	X	X	A	TEVNB
100%	X	X	X	2	X	-	-	X	X	TV
Sulfurous Acid	2	2	X	X	X	X	-	X	A	TV
Tannic Acid	X	-	X	X	2	2	2	X	A	TEVNB
Tartaric Acid	-	-	2	-	-	1	1	A	A	TVNB
Titanium Tetrachloride	X	X	X	2	2	-	2	X	X	TV
Toluene	1	1	1	1	1	1	1	A	X	TVB
Tetrahydrofuran	X	-	2	1	-	1	2	A	X	T
Tomato Juice	2	-	3	3	2	2	2	X	A	TEVNB
Trichloroethylene	1	-	2	2	-	-	-	A	X	TV
Triethanolamine	2	X	2	2	2	2	2	A	X	TEVN
Triethylamine	-	-	-	-	2	2	2	A	X	TVB
Trisodium Phosphate - 10%	X	2	-	2	2	1	1	A	A	TVNB
Turpentine	2	X	2	2	1	1	1	X	X	TVB
Urea - 50%	2	-	2	2	2	2	2	A	A	TEVNB
Urine	-	-	-	2	-	1	1	X	A	TEVNB
Vinegar	2	X	2	2	2	2	2	X	A	TEVN
Water Acid - Mine	X	X	X	X	-	-	-	X	A	TEVNB
Distilled	X	2	2	X	X	2	2	A	A	TEVNB
Sea	2	2	2	X	2	2	2	A	A	TEVNB
Whiskey	X	2	2	2	2	1	1	X	A	TEVNB
Wine	X	2	2	X	2	1	1	X	A	TEVNB
Xylene	2	2	2	2	2	2	2	A	X	TV
Zinc Chloride	X	X	X	X	-	X	2	A	A	TEVNB
Nitrate	-	-	-	-	-	2	2	X	A	TEVNB
Sulfate - 50%	X	2	2	X	2	1	1	X	A	TEVNB

Ratings given are based at 70°F.

**Legend - METAL:** 1 - Excellent; 2 - Good; 3 - Fair; X - Not Recommended; and - - Contact Factory

**NON-METAL:** A - Acceptable; X - Not Recommended; and - - Contact Factory   **GASKET/SEAL MATERIAL:** T - Teflon; V - Viton; E - EPDM; N - Neoprene; and B - Buna N