CORROSION GUIDE

* Guide only for normal solutions at 70°F. This chart is not meant as a warranty for service applications. The temperature and percentage of solution will change recommendations.

A	= usually satisfactory service
B	= slight/moderate effect ... caution
X	= generally unsuitable ... any condition
Blank	= insufficient data.

PROCESS	METALS: Duct Iron	Iron	Cast Steel	Bronze	304 S.S.	316 S.S.	Monel	Alloy 20	Meehanite	Alum.Bronze	Aluminium	SEATS: Buna-N	Neoprene	EPT	Butyl	Nat. Rubber	Hypalon	Viton
Acetaldehyde	A	A	A	A	A	A	A	A	A	B	A	X	X	B	X	B	X	X
Acetate-Solvents	B	B	A	B	A	A	A	A	B	B	A	X	X	B	B	X	X	X
Acetic Acid (10%)	X	X	X	A	B	A	B	A	X	B	A	B	A	A	A	B	A	B
Acetic Acid (30%)	X	X	X	X	A	A	B	A	X	X	B	B	B	B	B	X	X	X
Acetic Acid (80%)	X	X	X	A	B	B	B	A	X	B	B	B	X	B	B	B	X	X
Acetic Acid (100%)	X	X	X	A	B	B	B	A	X	B	B	B	X	B	B	X	X	X
Acetic Anhydride	X	X	X	X	B	B	B	A	X	X	A	X	B	B	B	B	B	X
Acetone	A	A	A	A	A	A	A	A	A	A	A	X	X	A	A	X	X	X
Acetyl Chloride (dry)	X	X	A	A	A	A	A	A	X	A	X	X	X	X	X	X	X	A
Acetamine	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A
Acetylene	A	A	A	A	A	A	A	A	A	B	A	A	B	A	A	B	B	A
Acrylonitrile	A	A	A	A	A	A	A	A	A	A	A	X	X	X	X	X	X	X
Air	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A
Alcohol-Methyl	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X
Alcohol-Amyl	A	A	A	A	A	A	A	A	A	A	A	B	B	A	A	B	B	B
Alcohol-Butyl	A	A	A	A	A	A	A	A	A	A	B	A	A	B	B	B	A	A
Alcohol-Ethyl	B	B	A	A	A	A	A	A	B	A	B	A	A	A	A	A	A	A
Aluminium Acetate	X	X	X	X	X	X	X	A	X	X	B	X	X	A	A	B	X	X
Aluminium Chloride	X	X	X	X	X	X	X	B	X	X	X	A	A	A	A	A	A	A
Aluminium Nitrate	X	X	X	X	B	B	B	X	X	X	X	A	A	A	A	A	A	X
Aluminium Sulfate	X	X	X	X	B	B	B	B	X	X	X	A	A	A	A	A	A	A
Alums (10%)	X	X	X	X	B	B	B	B	X	X	A	A	A	A	A	A	A	A
Amines	B	B	B	X	B	B	B	A	B	X	B	X	B	B	B	B	X	X
Ammonia Anhydrous	A	A	X	A	A	A	A	A	X	A	A	B	A	A	A	X	B	X
Ammonia Gas	A	A	A	X	A	A	A	A	A	X	A	A	A	A	A	A	A	X
Ammonia Solutions	A	A	A	X	A	A	A	A	X	X	B	B	A	A	A	X	X	X
Ammonium Acetate	B	B	B	X	B	B	B	B	B	X	A	B	B	A	A	X	X	X
Ammonium Bicarbonate	B	B	B	X	B	B	X	B	B	X	B	B	A	A	A	A	A	A
Ammonium Carbonate	B	B	B	X	B	B	B	B	B	X	B	X	A	A	A	B	A	A
Ammonium Chloride	X	X	X	X	B	B	B	B	X	X	X	A	A	A	A	A	A	A
Ammonium Fluoride	X	X	X	X	X	X	B	B	X	X	X	A	A	A	A	B	A	A
Ammonium Hydroxide	A	A	A	X	A	A	X	A	A	X	A	X	A	A	A	X	A	A
Ammonium Hyposulfite	X	X	X	X	B	B	X	B	X	X	B	B	A	A	A	B	A	A
Ammonium Nitrate	X	X	X	X	A	A	X	A	X	X	B	B	B	A	A	B	A	A
Ammonium Phosphate	X	X	X	X	B	B	B	B	X	X	X	A	A	A	A	A	A	A
Ammonium Sulfate	X	X	B	X	X	B	B	B	X	X	X	A	A	A	A	A	A	X
Ammonium Sulfide	X	X	B	X	B	B	B	B	X	X	B	A	A	A	A	A	A	X
Amyl Acetate	B	B	B	A	A	A	A	A	B	B	A	X	X	A	X	X	X	X
Amyl Chloride	B	B	B	B	A	A	B	A	B	B	X	X	X	X	X	X	X	X
Aniline to 80°	A	A	A	X	B	B	B	A	A	X	B	X	X	B	B	X	X	X
Anodizing Bath	X	X	X	X	B	B	B	A	X	X	B	X	X	B	B	X	B	A
Antichlor Solution	X	X	X	X	B	B	B	B	X	X	A	B	A	A	A	B	A	A
Apple Juice	X	X	X	A	A	A	A	A	X	A	B	A	A	B	A	A	A	A
Argon (Dry)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Armeen	X	X	X	X	B	B	B	B	X	X	B	X	X	X	X	X	X	X
Arsenic Acids	X	X	X	X	B	B	X	B	X	X	X	A	A	A	A	B	A	A
Asphalt	A	A	A	A	A	A	A	A	A	A	A	B	B	X	X	X	X	A
Barium Carbonate	B	B	B	B	B	B	B	B	B	B	X	X	A	A	A	B	A	A
Barium Cyanide	B	B	B	X	B	B	X	B	B	X	X	A	A	A	A	A	A	A
Barium Hydroxide	B	B	B	X	B	A	A	A	B	X	X	A	A	A	A	A	A	A
Barium Sulfide	X	X	A	X	B	B	X	B	X	X	X	A	A	A	A	A	A	A
Battery Acid H2SO4 (20%)	X	X	X	B	X	X	A	A	X	B	X	X	X	B	B	X	B	A
Beer	X	X	X	A	A	A	A	A	X	A	A	X	A	A	A	A	A	A
Beet Sugar Liquids	B	B	B	A	A	A	A	A	B	A	A	A	B	A	A	A	A	A
Bentonite	A	A	A	X	A	A	A	A	A	X	X	A	A	A	A	A	A	A
Benzene-Benzol	B	B	B	B	B	B	B	A	B	B	B	X	X	X	X	X	X	A
Benzaldehyde	X	X	A	B	B	B	B	B	X	B	A	X	X	A	A	X	X	X
Benzoic Acid	X	X	X	B	B	B	B	B	X	B	B	X	X	X	X	X	X	A
Berryllium Sulfate	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	B	A	A
Bicarbonate Liquor	B	B	B	B	B	B	B	A	B	B	X	A	A	A	A	A	A	A
Black Liquor	B	B	B	X	A	A	A	A	B	X	X	B	B	B	B	B	B	A
Black Sulfate Liquor	B	B	B	X	B	B	B	A	B	X	X	B	B	B	B	B	B	A
Blood	X	X	X	A	A	A	A	A	X	A	B	A	A	A	A	A	A	A
Borax Liquors	A	A	B	A	A	A	A	A	A	A	A	B	X	A	A	B	X	A
Boric Acid	X	X	X	B	B	B	B	B	B	X	B	A	A	A	A	A	A	A
Brake Fluids	A	A	A	A	A	A	A	A	A	A	A	X	B	A	B	X	B	X
Brine-Alkaline	B	B	X	B	B	B	B	B	B	B	X	B	B	A	X	X	B	B
Brown Liquor	B	B	B	X	B	B	A	B	B	X	X	B	B	B	B	B	B	A
Butane	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	X	B	A
Butylene	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	X	X	A

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Butadiene	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	X	B	A
Butyric Acid	X	X	X	B	B	B	B	A	X	B	A	X	X	B	B	X	X	B
Butyl Acetate	B	B	A	B	B	B	B	B	B	B	A	X	X	B	B	X	X	X
Butyl Amine	B	B	A	X	A	A	A	A	B	X	B	X	X	X	X	X	X	X
Butyl Chloride (100%)	B	B	X	B	B	A	B	B	B	B	X	X	X	X	X	X	X	A
Butyl Ether (Dry)	A	A	A	B	A	A	B	A	A	B	B	X	X	X	X	X	X	X
Cadmium Plating Bath	B	B	X	X	B	B	X	B	B	X	X	X	X	B	B	X	B	A
Calcium Bisulfite	X	X	X	X	B	B	X	B	X	X	B	A	A	X	X	X	A	A
Calcium Chloride	B	B	B	A	B	B	A	B	B	A	A	A	A	A	A	A	A	A
Calcium Chlorate	B	B	B	X	B	B	B	B	B	X	B	B	B	A	B	A	A	A
Calcium Hypochlorite	X	X	X	B	X	B	X	B	X	X	X	B	B	A	A	B	A	A
Calcium Hydroxide	B	B	B	X	B	B	B	B	B	X	X	A	A	A	A	A	A	A
Calcium Phosphate	B	B	B	B	B	B	B	B	B	B	X	A	A	A	A	A	A	A
Calcium Silicate	B	B	B	B	B	B	B	B	B	B	X	A	A	A	A	A	A	A
Calcium Sulfate	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	B	A	A
Camphor	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A
Cane Sugar Liquors	B	B	B	B	A	A	A	B	A	A	A	A	A	A	A	A	A	A
Carbitol	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Carbolic Acid (Phenol)	B	B	A	A	B	B	A	B	B	A	A	X	X	B	B	X	X	A
Carbon Bisulfide	B	B	A	A	B	B	B	B	B	A	A	X	X	X	X	X	X	A
Carbon Dioxide	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B
Carbon Disulfide	B	B	A	A	B	B	B	B	B	A	A	X	X	X	X	X	X	A
Carbon Monoxide	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	B	B	A
Carbon Tetrachloride	X	X	A	A	B	B	A	A	X	A	B	B	X	X	X	X	X	A
Carbonic Acid	X	X	B	B	B	B	X	A	X	B	B	B	A	A	A	A	A	A
Carbonated Beverages	X	X	B	B	B	B	X	A	X	B	B	A	A	A	A	A	A	A
Casein	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A
Castor Oil	A	A	A	A	A	A	A	A	A	A	A	A	B	B	A	A	A	A
Catsup	X	X	X	B	A	A	A	A	X	B	B	A	A	A	A	A	A	A
Caustic Solutions	B	B	B	B	B	B	A	B	B	B	X	B	A	A	A	X	X	B
Cellulose Acetate	B	B	B	A	B	B	A	B	B	A	A	X	X	A	A	X	X	X
Chloracetic Acid	X	X	X	X	X	X	X	B	X	X	X	X	X	B	B	X	X	X
Chloramine	X	X	X	B	B	B	B	X	B	B	B							
Chlorinated Solvents	B	B	B	B	B	B	B	B	B	B	B	X	X	X	X	X	X	A
Chlorine (Dry)	B	B	A	B	A	B	B	A	B	B	B	X	X	X	X	X	X	A
Chlorobenzene	B	B	B	B	B	B	B	B	B	B	B	X	X	X	X	X	X	A
Chloroform (Dry)	A	A	A	A	A	A	A	B	A	A	B	X	X	X	X	X	X	A
Chlorophyll	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Chlorosulfonic Acid (Dry)	A	A	A	X	B	B	B	B	A	X	B	X	X	X	X	X	X	X
Chrome Alum.	X	X	X	B	B	B	B	X	B	X	B	A	A	A	A	A	A	A
Chrome Liquor	X	X	X	X	B	B	X	B	X	X	X	X	X	X	X	X	X	A
Chromic Acid (10%)	X	X	X	X	B	B	B	B	X	X	B	X	X	B	X	X	B	A
Chromic Acid (50%)	B	B	X	X	B	B	X	B	B	X	X	X	X	B	X	X	B	A
Chromium Sulfate	X	X	X	B	B	B	B	B	X	B	B	A	A	A	A	A	A	A
Citric Acid	X	X	A	B	B	B	B	B	X	B	B	A	A	A	A	A	A	A
Coal Tar	B	B	A	B	A	A	A	A	B	B	A	B	B	X	X	X	X	A
Cocoanut Oil	B	B	A	B	A	A	A	B	B	B	B	A	X	A	A	X	X	A
Coffee	X	X	X	A	A	A	A	A	X	A	A	A	A	A	A	A	A	A
Coke Oven Gas	A	A	B	A	A	A	A	A	A	B	A	X	X	X	X	X	X	A
Cooking Oil	B	B	B	B	A	A	A	A	B	B	A	A	B	X	B	X	B	A
Copper Acetate	X	X	X	X	B	B	B	B	X	X	X	B	B	A	A	X	X	X
Copper Cyanide	X	X	X	B	B	B	B	B	X	X	X	A	A	A	A	A	A	A
Copper Sulfate	X	X	X	X	B	B	B	A	X	X	X	A	A	B	B	A	A	A
Core Oil	A	A	A	A	A	A	A	A	A	A	A	A	X	A	X	X	X	A
Corn Kernels	B	B	B	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A
Corn Oil	B	B	B	A	A	A	A	A	B	A	A	A	B	X	B	X	B	A
Corn Syrup	B	B	B	A	A	A	A	A	B	A	A	A	B	A	A	A	B	A
Creosote	B	B	A	B	B	B	B	A	B	B	B	A	B	X	X	X	X	A
Cresylic Acid (50%)	B	B	B	B	B	B	B	B	B	B	B	X	X	X	X	X	X	A
Crude Oil (Sour)	X	X	X	X	B	B	B	B	X	X	X	A	B	X	X	B	A	
Cyanide Solution	X	X	X	X	B	B	X	B	X	X	X	A	A	A	A	A	A	A
Cyclo Hexane	B	B	B	B	B	B	B	B	B	B	B	A	X	X	X	X	X	A
Deionized Water	A	A	X	A	A	A	A	A	A	A	A	A	X	A	A	A	A	A
Detergents	B	B	B	B	B	B	B	B	B	B	B	A	B	A	A	B	B	A
Developer-Photo	B	B	B	B	B	B	B	B	B	B	B	A	A	B	A	A	A	
Dextrin	B	B	B	A	A	A	B	A	B	A	B	A	B	A	A	A	B	A
Diacetone Alcohol	A	A	A	A	A	A	A	A	A	A	A	X	X	A	A	X	X	X
Dichloro Ethyl Ether	B	B	B	B	B	B	B	B	B	B	B	X	X	X	X	X	X	X
Diesel Fuel	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	X	X	A
Diester Lube's	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	X	X	A

PROCESS	METALS: Duct Iron	Iron	Cast Steel	Bronze	304 S.S.	316 S.S.	Monel	Alloy 20	Meehanite	Alum.Bronze	Aluminium	SEATS: Buna-N	Neoprene	EPT	Butyl	Nat. Rubber	Hypalon	Viton
Diethylamine	B	B	X	X	B	B	B	B	B	X	B	B	B	B	B	B	B	X
Diethyl Sulfate	B	B	B	B	B	B	B	B	B	B	B	X	X	X	X	X	X	A
Diethylene Glycol	A	A	A	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A
Dimethyl Formamide	B	B	B	B	A	A	A	A	B	B	B	B	X	X	X	X	X	X
Dioxane (Dry)	A	A	A	A	A	A	A	A	B	A	B	X	X	B	B	X	X	X
Dipentene-Pinene	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	X	X	A
Dowtherms	B	B	B	B	B	B	B	B	B	B	B	X	X	X	X	X	X	A
Drilling Mud	B	B	B	X	B	B	B	B	B	X	X	A	X	A	A	A	A	A
Dyes (General)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl Acetate	B	B	A	A	B	B	B	B	B	B	A	X	X	B	B	X	X	X
Ethyl Acrylate	A	A	A	A	A	A	A	A	A	A	A	X	X	B	B	X	X	X
Ethyl Alcohol	B	B	B	A	B	A	A	A	B	A	B	A	A	A	A	A	A	A
Ethyl Bromide	B	B	A	A	A	A	B	A	B	B	A	A	A	A	A	A	A	X
Ethyl Chloride (Dry)	B	B	A	A	A	A	B	A	B	B	A	A	A	A	A	A	A	X
Ethyl Chloride (Wet)	X	X	X	A	X	B	B	B	X	B	X	A	A	A	A	A	A	X
Ethyl Silicate	A	A	B	A	A	A	A	A	B	A	A	A	A	A	A	B	B	A
Ethylene	A	A	A	A	A	A	A	A	A	A	B	A	A	X	X	X	B	A
Ethylene Glycol	B	B	A	B	B	B	B	A	B	B	A	A	A	A	A	A	A	A
Fatty Acids	X	X	X	X	B	A	B	A	X	X	A	B	B	X	X	X	X	A
Ferric Nitrate	X	X	X	X	B	B	X	A	X	X	X	A	A	A	A	A	A	A
Ferric Sulfate (Dil)	X	X	X	X	B	A	X	A	X	X	X	A	A	A	A	A	A	A
Ferrous Chloride	X	X	X	B	X	X	X	X	X	X	X	A	B	A	A	A	A	B
Ferrous Sulfate (10%)	X	X	X	B	B	B	B	B	X	B	A	A	A	A	A	A	A	A
Ferrous Sulfate (100%)	B	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A
Fish Oil	B	B	B	X	A	A	A	A	B	X	X	A	X	X	X	B	X	A
Flue Gas	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	B	A	A
Fluoride Salts	X	X	X	X	X	B	B	B	X	X	B	A	A	A	A	A	A	A
Formaldehyde (40%)(Formalin)	X	X	X	B	A	A	B	A	X	B	B	A	A	A	A	A	A	A
Fluorosilicic Acid	X	X	X	X	X	B	A	B	X	X	X	X	B	X	X	X	B	X
Formaldehyde (Cold)(100%)	B	B	A	B	A	A	A	A	B	B	A	X	X	B	B	B	X	X
Formic Acid	X	X	X	B	A	A	B	A	X	B	B	B	X	B	B	B	X	X
Freon (Dry)	X	X	A	A	A	A	A	A	X	A	B	B	B	B	X	X	B	B
Freon (Wet)	X	X	X	B	B	A	B	A	X	X	X	B	B	B	X	X	B	B
Fruit Juices	X	X	X	A	A	A	A	A	X	A	X	A	A	A	A	A	A	A
Furfural	B	B	B	A	B	B	B	B	B	B	B	X	X	B	B	X	X	X
Furnace Gas	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	X	X	A
Gallic Acid (5%)	X	X	X	X	B	B	B	B	X	X	B	B	B	B	B	A	B	A
Gas-Natural	B	A	A	A	A	A	A	A	A	A	B	A	X	X	X	B	A	A
Gasoline-Motor	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	X	X	A
Gasoline (Sour)	B	B	B	B	X	A	X	B	B	B	B	A	X	X	X	X	X	A
Gelatine	B	B	B	B	A	A	A	A	B	B	B	A	A	A	A	A	A	A
Glucose	B	B	B	A	A	A	A	A	B	A	B	A	A	A	A	A	A	A
Glue (Most)	B	B	B	B	A	A	A	A	B	B	B	A	A	A	A	A	A	A
Glycerine	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glycerol	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glycolic Acid	X	X	X	B	B	B	B	B	X	B	B	B	X	B	B	B	X	X
Glyoxal	X	X	B	A	A	B	A	X	B	B	X	X	X	B	B	B	X	X
Glycol Amine	A	A	X	A	A	B	A	A	X	B	X	X	B	B	B	B	X	X
Graphite	B	A	B	A	A	A	A	A	B	A	A	A	A	A	A	A	A	A
Grease-Edible	B	B	B	X	A	A	A	A	B	X	X	A	A	X	X	B	X	A
Green Liquor	B	B	B	X	B	B	A	B	B	X	X	B	B	B	B	B	B	A
Helium Gas	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Heptane-Hexane	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	B	A
Hexachlorobenzene	B	B	B	B	B	B	B	B	B	B	B	X	X	X	X	X	X	A
Hexane	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	B	A
Hexanol-Tertiary	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	A	B	A
Hydraulic Oil	B	B	B	B	B	A	A	A	B	B	B	A	B	X	X	X	B	A
Hydrazine	X	X	X	X	A	A	X	A	X	X	A	B	B	A	A	B	B	X
Hydrocyanic Acid (100%)	B	B	A	B	B	B	A	B	B	X	A	B	B	A	A	A	A	A
Hydrofluoric Acid (100%)	X	X	B	X	B	B	B	B	X	X	X	B	B	A	A	A	A	A
Hydrofluosilicic Acid (100%)	B	B	X	B	X	B	A	B	B	B	X	B	B	A	A	A	A	A
Hydrogen Gas	B	A	B	B	A	A	A	A	B	B	A	A	A	A	A	A	B	A
Hydrogen Peroxide (33%)	X	X	X	X	B	B	B	B	X	X	B	B	A	A	A	B	B	A
Hydrogen Sulfide (Dry)(100%)	B	B	X	X	X	B	B	B	B	X	B	B	A	A	A	B	A	A
Hydrogen Sulfide (Wet)(100%)	X	X	X	X	X	B	X	B	X	X	B	X	B	A	A	X	B	A
Illuminating Gas	A	A	A	A	A	A	A	A	A	A	A	X	X	X	X	X	X	X
Ink	X	X	X	A	A	A	A	A	X	A	B	A	X	A	A	A	A	A
Iodine Solution	X	X	X	X	B	X	B	X	X	X	B	X	B	X	B	B	X	B
Iron Oxide (Dry)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Iso-Octane	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	A	A

CORROSION GUIDE

* Guide only for normal solutions at 70°F. This chart is not meant as a warranty for service applications. The temperature and percentage of solution will change recommendations.

A = usually satisfactory service
B = slight/moderate effect ... caution
X = generally unsuitable ... any condition
Blank = insufficient data.

PROCESS	METALS: Duct Iron	Iron	Cast Steel	Bronze	304 S.S.	316 S.S.	Monel	Alloy 20	Meehanite	Alum.Bronze	Aluminium	SEATS: Buna-N	Neoprene	EPT	Butyl	Nat. Rubber	Hypalon	Viton
Isopropyl Alcohol	B	B	A	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A
Isopropyl Ether	A	A	A	B	B	B	B	B	B	B	B	B	X	X	X	X	X	X
Jet Fuels	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	A
Juices-Fruit	X	X	X	A	A	A	A	A	X	A	X	A	A	A	A	A	A	A
Kelp Slurry	B	B	B	B	A	A	A	A	B	B	B	A	A	A	A	A	A	A
Kerosene	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	X	A
Ketones (100%)	A	A	A	A	A	A	A	A	A	A	A	X	X	X	A	X	X	X
Lactic Acid (Diluted)	X	X	X	X	B	B	X	B	X	X	X	A	A	A	A	A	A	A
Lactic Acid (100%)	X	X	X	X	B	B	X	B	X	X	B	A	A	A	A	A	A	A
Lactose	B	B	B	A	A	A	A	A	B	A	B	A	B	A	A	A	B	A
Lard Oil	B	B	B	X	B	A	B	A	B	X	B	A	B	B	B	X	X	A
Lead Sulfate	X	X	X	B	B	B	B	B	X	B	X	A	A	A	B	B	A	A
Lecithin	B	B	B	B	A	A	A	A	B	B	B	X	X	X	X	X	X	A
Lime-Sulphur Mix (Dry)	A	A	A	X	A	A	A	A	A	X	A	X	A	A	A	X	A	A
Linoleic Acid	X	X	X	X	B	B	B	A	X	X	A	B	B	X	X	X	X	B
Linseed Oil	A	A	A	A	A	A	B	A	A	A	A	A	B	X	A	X	B	A
Lithium Chloride	B	B	B	B	A	A	A	A	B	B	X	A	A	A	A	A	A	A
LPG	A	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	X	A
Ludox	A	A	A	X	A	A	A	A	A	X	X	A	A	A	A	A	A	A
Magnesium Bisulfate	X	X	X	X	X	B	B	A	X	X	X	A	A	A	A	B	A	A
Magnesium Bisulfide	X	X	X	X	B	B	B	B	X	X	B	A	A	A	A	B	A	A
Magnesium Carbonate	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A
Magnesium Chloride	B	B	B	X	B	B	A	X	B	X	A	A	A	A	A	A	A	A
Magnesium Hydroxide	B	B	B	B	B	B	B	B	B	B	X	B	B	A	A	B	A	A
Magnesium Sulfate (liq.)	X	X	B	A	A	A	B	A	X	A	B	A	A	A	A	B	A	A
Maleic Acid (100%)	B	B	A	B	B	B	B	B	B	B	B	X	X	X	X	X	X	A
Maleic Anyhdride	B	B	A	B	B	B	A	B	B	B	A	X	X	X	X	X	X	A
Malt Slurry	B	B	B	A	A	A	A	A	B	A	B	A	A	A	A	A	A	A
Manganese Sulfate	X	X	B	A	A	A	B	A	X	A	B	A	A	A	B	A	A	A
Mannitol Solution	B	B	B	A	A	A	A	A	B	A	A	B	B	A	A	B	B	A
Menthol	B	B	B	A	A	A	A	A	B	A	A	A	X	X	X	X	X	A
Mercuric Chloride	X	X	X	X	X	X	X	X	X	X	X	A	A	A	A	A	A	A
Mercuric Cyanide	X	X	X	X	B	B	B	B	X	X	X	A	A	A	A	A	A	A
Mercuric Nitrate	B	B	B	X	B	B	B	B	B	X	X	B	B	A	A	B	A	A
Mercury	A	A	A	X	B	B	B	B	A	X	X	A	A	A	A	A	A	A
Menthane (use butane)	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	B	A	A
Methyl Acetate	B	B	A	B	B	B	B	B	B	B	A	X	B	B	B	X	X	X
Methyl Acetone	A	A	A	A	A	A	A	A	A	A	A	X	X	A	A	X	X	X
Methyl Alcohol	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	X
Methyl Bromide (100%)	X	X	A	B	B	B	B	B	X	B	B	B	X	X	X	X	X	A
Menthylamine (100%)	B	B	A	X	B	B	B	A	B	X	B	X	X	B	B	B	X	X
Methyl Cellosolve	B	B	A	B	B	B	A	B	B	A	B	A	X	B	B	X	X	X
Methyl Chloride (Wet)	X	X	X	B	A	A	B	A	X	B	X	X	X	X	X	X	X	A
Methyl Ethyl Ketone	B	B	B	B	A	A	A	A	B	B	B	X	X	A	A	X	X	X
Methyl Formate (100%)	A	A	A	A	A	A	A	A	A	A	A	X	B	B	B	X	B	X
Methylene Chloride	B	B	B	B	B	B	B	A	B	B	X	X	X	X	X	X	X	B
Milk	X	X	X	X	A	A	X	A	X	X	A	A	A	A	A	A	A	A
Mineral Oil (Pure)	A	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	B	A
Mixed Acids (Cold)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	B
Molasses	B	B	B	A	A	A	A	A	B	A	B	A	A	A	A	A	A	A
Monochloroacetic Acid	X	X	X	X	X	B	B	X	X	X	X	B	X	B	B	B	X	X
Morpholine (100%)	B	B	A	B	B	B	B	B	B	B	B	X	X	B	B	X	X	X
Naptha	B	B	A	B	B	B	B	B	B	B	A	B	X	X	X	X	X	A
Napthaleno (100%)	B	B	A	B	B	B	B	B	B	B	B	X	X	X	X	X	X	A
Natural Gas	A	A	A	A	A	A	A	A	A	A	A	A	A	X	X	B	A	A
Natural Gas (Sour)	B	B	B	B	X	A	X	B	B	B	B	A	A	X	X	X	X	A
Nickel Ammonia Sulfate	X	X	X	X	B	B	B	B	X	X	X	A	A	A	A	A	X	X
Nickel Chloride	X	X	X	X	B	B	B	X	X	X	A	A	A	A	A	A	A	A
Nickel Sulfate	X	X	B	B	B	B	B	X	B	X	A	A	A	A	B	A	A	A
Nicotinic Acid (100%)	X	X	B	B	B	B	B	X	B	B	B	X	X	X	X	X	X	A
Nitric Acid (10%)	X	X	X	X	B	B	X	A	X	X	X	X	B	X	B	B	A	A
Nitric Acid (30%)	X	X	X	X	A	A	X	A	X	X	X	X	X	B	B	X	X	A
Nitric Acid (60%)	X	X	X	X	A	A	X	A	X	X	X	X	X	B	B	X	X	A
Nitric Acid (80%)	X	X	X	X	B	B	X	A	X	X	B	X	X	B	B	X	X	A
Nitric Acid Anhydrous	X	X	X	X	A	A	X	A	X	X	A	X	X	X	X	X	X	A
Nitrobenzene	B	B	A	B	B	B	B	A	B	X	A	X	X	X	X	X	X	B
Nitrogen Gas	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Oils, Animal	B	B	B	X	B	A	B	A	B	X	B	A	B	B	B	X	B	A
Oil, Cottonseed	B	B	B	B	A	A	A	A	B	B	A	A	B	X	X	A	A	A
Oil, Fish	B	B	B	X	A	A	A	A	B	X	X	A	A	X	X	B	X	A

PROCESS	METALS: Duct Iron	Iron	Cast Steel	Bronze	304 S.S.	316 S.S.	Monel	Alloy 20	Meehanite	Alum.Bronze	Aluminium	SEATS: Buna-N	Neoprene	EPT	Butyl	Nat. Rubber	Hypalon	Viton
Oil, Fuel	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	B	A
Oil, Lube	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	B	A
Oil, Mineral	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	B	A
Oil, Petroleum	X	X	X	X	B	B	B	B	X	X	X	A	B	X	X	X	B	A
Oleic, Acid (100%)	B	B	B	B	B	B	A	B	B	B	B	X	X	X	X	X	X	B
Oleum (25%)	X	X	B	X	B	B	X	B	X	X	B	X	X	X	X	X	X	A
Oleum Spirits	X	X	B	X	B	B	X	B	X	X	B	X	X	X	X	X	X	A
Olive Oil	X	X	X	X	A	A	A	A	X	X	B	A	B	B	B	X	B	A
Oxalic Acids (Cold)	X	X	B	B	B	B	B	X	B	X	B	X	B	B	A	A	B	A
Oxalic Acid (25%)	X	X	B	B	B	B	B	X	B	B	B	B	B	A	A	B	B	A
Ozone (Dry)	A	A	A	A	A	A	A	A	A	A	A	A	X	X	A	B	X	A
Ozone (Wet)	X	X	X	A	A	A	A	A	X	A	B	A	X	A	B	X	A	A
Paints-Solvents	B	B	B	B	A	A	A	A	B	B	B	B	X	X	X	X	X	B
Palmitic Acid	B	B	B	B	B	B	B	B	B	B	B	B	A	B	B	B	X	A
Palm Oil	X	X	X	X	B	A	B	A	X	X	A	A	B	X	X	X	X	A
Paper Pulp	B	B	A	B	B	A	B	B	B	X	B	X	B	B	B	B	X	B
Paraffin Oils	A	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	B
Perchlorethylene	B	B	A	B	B	B	B	B	B	X	B	X	A	X	X	X	X	A
Permanganic Acid	B	B	B	B	B	B	B	B	B	B	B	B						
Peroxide Bleach	B	B	B	X	A	A	B	A	B	X	A	B	A	A	A	B	B	A
Phenol (100%)	B	B	A	A	B	B	A	B	B	A	A	A	X	X	X	X	X	A
Phenolic Glue	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	X	X	A
Phosphoric Acid (10%)	X	X	X	B	A	X	A	X	X	X	X	B	B	A	A	B	A	A
Phosphoric Acid (50%)	X	X	X	B	B	X	A	X	X	X	X	X	B	B	B	X	B	A
Phosphoric Acid (100%)	X	X	X	X	B	X	A	X	X	X	X	X	X	X	X	X	B	A
Phosphoric Molten	B	B	B	X	A	A	A	A	B	X	X							
Photographic Solutions	X	X	B	B	A	A	B	A	X	B	B	B	A	A	B	A	A	A
Picric Acid Solution	X	X	X	X	B	B	X	B	X	X	X	A	A	A	A	A	A	A
Pine Oil	B	B	B	X	B	B	B	B	B	B	X	A	X	X	X	X	X	A
Plasma	X	X	X	A	A	A	A	A	X	A	B	A	A	A	A	A	A	A
Polysulfide Liquor	B	B	B	X	B	B	B	B	B	X	X	A	A	A	A	B	A	A
Polyvinyl Acetate	B	B	B	B	A	A	B	B	B	B	B		B	A	A		B	
Polyvinyl Chloride	A	A	A	A	A	A	A	A	A	A	A		B	A	A		B	
Potassium Acetate	A	A	A	B	B	B	B	B	B	A	B	X	B	B	A	A	X	X
Potassium Bromide	X	X	X	B	B	B	B	B	X	B	B	A	A	A	A	A	A	A
Potassium Carbonate	B	B	B	B	B	B	B	B	B	B	X	A	A	A	A	A	A	A
Potassium Chloride Sol	X	X	X	B	B	B	B	A	X	B	X	A	A	A	A	A	A	A
Potassium Chromate	B	B	B	B	B	B	A	B	B	B	B	A	A	A	A	A	A	A
Potassium Cyanide Sol.	X	X	B	X	B	B	B	B	X	X	X	A	A	A	A	A	A	A
Potassium Dichromate	B	B	B	X	B	B	B	B	B	X	B	A	A	A	A	A	A	A
Potassium Hydroxide	X	X	B	X	B	B	A	B	X	X	X	B	B	A	A	B	A	X
Potassium Hydroxide (25%)	B	B	B	B	B	B	A	B	B	X	X	B	B	A	A	B	A	X
Potassium Nitrate	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A
Potassium Phosphate	B	B	B	B	B	B	B	B	B	X	A	A	A	A	A	A	A	A
Potassium Sulfate	X	X	B	B	B	B	B	B	X	B	B	A	A	A	A	B	B	A
Potassium Sulfide	X	X	X	X	B	B	X	B	X	X	X	A	A	A	A	B	B	A
Potassium Sulfite	X	X	X	B	B	B	X	B	X	B	B	A	A	A	A	B	B	A
Propane Gas	A	A	A	A	A	A	A	A	A	A	A	A	A	X	X	X	A	A
Propyl Alcohol	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A
Propyl Bromide	B	B	A	A	A	A	B	A	A	B	A	A	A	A	A	A	X	A
Propylene Glycol	B	A	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A
Pyrrole	B	B	B	B	B	B	B	B	B	B	B	X	X	X	B	X	X	X
Resins	X	X	X	A	A	A	A	A	X	A	B							
Road Oils	A	A	A	A	A	A	A	A	A	A	A	B	B	X	X	X	A	A
Salad Oils	X	X	X	B	A	A	A	A	X	B	B	A	B	B	B	X	B	A
Salicylic Acid	X	X	X	X	B	B	B	B	X	X	X	B	B	A	A	A	B	A
Salt Brine	X	X	X	A	A	A	A	A	X	A	B	A	X	A	A	A	X	A
Sea Water	X	X	X	A	A	A	A	A	X	A	B	A	X	A	A	A	X	A
Sewage	X	X	X	A	A	A	A	A	X	A	B	A	B	A	A	A	B	A
Shellac	B	B	B	A	A	A	A	A	B	A	A	A	A	A	A	A	X	X
Sillicone Fluids	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Silver Cyanide	X	X	X	X	B	B	B	B	X	X	X	A	A	A	A	A	A	A
Silver Iodide	X	X	X	X	A	B	X	X	X	X	A	A	A	A	A	A	A	A
Sodium Acetate	B	B	B	B	B	X	B	B	B	B	B	B	B	A	A	A	X	X
Sodium Aluminate	A	A	B	A	A	A	A	A	A	B	X	A	A	A	A	A	A	A
Sodium Arsenate	B	B	B	B	B	B	B	B	B	B	X	A	A	A	B	A	A	
Sodium Bicarbonate	B	B	B	B	B	B	B	B	B	B	X	A	A	A	A	A	A	A
Sodium Bisulfate	X	X	X	X	X	B	B	A	X	X	X	A	A	A	A	A	A	A
Sodium Carbonate Sol.	B	B	B	B	B	B	A	B	B	B	X	A	A	A	A	A	A	A
Sodium Chlorate	B	B	B	X	B	B	X	B	B	X	B	B	B	A	A	B	A	A

PROCESS	METALS: Duct Iron	Iron	Cast Steel	Bronze	304 S.S.	316 S.S.	Monel	Alloy 20	Meehanite	Alum.Bronze	Aluminium	SEATS: Buna-N	Neoprene	EPT	Butyl	Nat. Rubber	Hypalon	Viton
Sodium Chloride	B	B	B	B	B	B	A	B	B	B	X	A	A	A	A	A	A	A
Sodium Cyanide	X	X	X	X	B	B	X	B	X	X	X	A	A	A	A	A	A	A
Sodium Fluoride	X	X	X	X	X	B	B	B	X	X	X	A	A	A	A	A	A	A
Sodium Hydrosulfide	X	X	X	X	A	A	A	A	X	X	X	A	A	A	A	A	A	A
Sodium Hydroxide (20%)	B	B	A	A	A	A	A	A	B	A	X	A	A	A	A	B	A	A
Sodium Hydroxide (50%)	B	B	A	B	B	B	A	B	B	B	X	B	A	A	A	A	A	B
Sodium Hydroxide (70%)	B	B	X	B	B	B	A	B	B	B	X	A	B	A	A	A	A	X
Sodium Hypochlorite (20%)	X	X	X	X	X	X	X	X	X	X	X	B	X	B	B	B	X	A
Sodium Metaphosphate	X	X	X	B	B	B	B	B	X	X	X	A	B	A	A	A	B	A
Sodium Metasilicate	B	B	B	B	A	A	A	A	B	B	X	A	A	A	A	A	A	A
Sodium Nitrate	B	B	B	X	A	A	B	A	B	B	B	B	B	A	A	B	A	A
Sodium Perborate	B	B	B	X	B	B	B	B	B	B	X	B	B	A	A	B	B	A
Sodium Peroxide	B	B	B	X	B	B	B	B	B	X	B	B	B	A	A	B	B	A
Sodium Phosphate	B	B	B	B	B	B	B	B	B	B	X	A	B	A	A	A	A	A
Sodium Silicate	B	B	B	B	B	B	B	B	B	B	X	A	A	A	A	A	A	A
Sodium Sulfate	B	B	B	B	B	B	B	B	B	B	A	A	A	A	A	A	A	A
Sodium Sulfide	X	X	X	X	B	B	B	B	X	X	X	A	A	A	A	B	A	A
Sodium Dichromate	B	B	B	X	B	B	B	B	B	X	B	A	A	A	A	A	A	A
Sodium Sulfite	X	X	B	X	A	A	B	A	X	X	B	A	A	A	A	B	A	A
Sodium Thiosulfate	X	X	X	B	B	B	B	X	X	A	B	A	A	A	A	B	A	A
Soybean Oil	A	A	X	A	A	A	A	A	A	X	B	A	B	X	B	X	X	A
Stannic Chloride	X	X	X	X	X	X	X	X	X	X	X	A	A	A	A	A	X	A
Starch	B	B	B	A	A	A	A	A	B	A	B	A	X	A	B	A	A	A
Steam-Low Pressure	A	A	A	B	A	A	B	A	A	B	B	X	X	A	B	X	B	B
Stearic Acid (100%)	X	X	A	X	B	B	B	B	X	X	B	B	B	B	B	B	B	A
Styrene (Dry)	B	B	B	B	A	B	A	B	B	B	A	X	X	X	X	X	X	A
Sulfamic Acid	X	X	X	B	B	B	B	B	X	B	X	X	X	X	X	X	A	A
Sulfite Liquor	X	X	X	X	B	B	X	B	X	X	X	B	B	B	B	B	B	B
Sulfonic Acids	X	X	X	B	B	B	B	B	X	B	X	X	X	X	X	X	A	A
Sulphur	X	X	X	X	B	B	B	B	X	X	B	X	A	A	A	X	A	A
Sulphur Dioxide (Dry)(100%)	B	B	A	B	B	B	B	B	B	B	B	X	X	A	B	B	X	A
Sulphur Trioxide (Dry)(100%)	B	B	B	B	B	B	B	B	B	B	B	X	X	B	B	B	X	A
Sulfuric Acid (10%)	X	X	X	X	X	X	X	A	X	X	X	B	B	B	B	B	B	A
Sulfuric Acid (75%)	X	B	B	X	X	X	X	A	X	X	X	X	X	B	B	X	B	A
Sulfuric Acid (100%)	B	B	B	X	B	B	X	A	B	X	X	X	B	X	B	X	B	A
Sulfurous Acid	X	X	X	X	X	A	X	B	X	X	X	B	B	B	B	B	A	A
Tall Oil	B	B	B	B	B	B	B	B	B	B	X	B	B	X	X	X	A	A
Tannic Acid	X	X	X	B	B	B	B	B	X	B	B	A	B	A	A	A	B	A
Tar	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	X	X	A
Tartaric Acid	X	X	X	X	A	B	B	B	X	X	B	A	B	B	B	A	A	A
Toluol-Toluene	A	A	A	A	A	A	A	A	A	A	A	X	X	X	X	X	X	A
Tributyl Phosphate	A	A	B	A	A	A	B	A	B	A	A	X	X	A	B	B	X	X
Trichoroethylene	X	B	A	A	B	B	B	B	B	B	A	X	X	X	X	X	X	A
Tung Oil	B	B	B	B	A	A	A	A	A	B	A	A	B	X	X	X	X	A
Turpentine	B	B	B	B	B	B	B	B	B	B	B	A	X	X	X	X	X	A
Urea	X	X	X	B	B	B	B	B	X	B	B	X	B	B	B	B	X	X
Varnish	B	B	B	B	A	A	A	A	B	B	B	B	X	X	X	X	X	A
Vegetable Oils	A	A	A	A	A	A	A	A	A	A	B	A	B	X	B	X	A	A
Vinegar	X	X	X	A	A	A	A	A	X	X	B	B	B	A	A	B	A	A
Vinyl Acetate	B	B	B	B	A	A	B	B	B	B	B		B	A	A		B	
Water, Fresh	X	X	X	A	A	A	A	A	X	A	B	A	X	A	A	A	A	A
Water, Heavy	X	X	X	A	A	A	A	A	X	A	B	A	X	A	A	A	A	A
Water, Mine Acid	X	X	X	X	B	X	A	X	X	X	A	A	X	A	A	A	A	A
Water, Distilled	A	A	X	A	A	A	A	A	A	X	A	A	X	A	A	A	A	A
Water, PH7 or over	A	A	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A	A
Water, Salt	X	X	X	B	A	A	A	A	X	B	X	A	X	A	A	A	X	A
Waxes	A	A	A	A	A	A	A	A	A	A	A	A	B	X	X	X	B	A
Whiskey	X	X	X	A	A	A	A	A	X	A	B	A	A	A	A	A	A	A
White Liquor	A	A	X	A	A	A	A	A	A	X	X	B	B	B	B	B	B	A
Xylene-Xylol	B	B	B	A	B	B	A	B	B	A	A	X	X	X	X	X	X	A
Zinc Acetate	X	X	X	B	B	B	B	B	X	X	X	B	B	A	A	A	X	X
Zinc Bromide	X	X	X	B	B	B	B	B	X	B	X	A	A	A	A	A	A	A
Zinc Chloride	X	X	X	B	B	B	B	B	X	X	X	A	A	A	A	A	A	A
Zinc Sulfate	X	X	X	B	A	A	B	A	X	B	X	A	A	A	A	B	A	A