

CORROSION RESISTANCE TABLES FOR PLASTICS / ELASTOMERS

Aggressive Substances	Buna "N"	Teflon	Viton
Acetate Solvents, Crude & Pure	D	A	C
Acetaldehyde, 100%	D	A	C
Acetic Acid, 95%	C	A	C
Acetic Acid Vapours, 100%, Hot	B ²	A	C
Acetic Anhydride, Boiling	D	A	C
Acetone	B	A	C
Alcohols	B ⁴	A	A
Aluminium Potassium, 10%	B	A	A
Aluminium Chloride, 10%	B	A	A
Aluminium Chloride, 10%, Boiling	D	A	A
Aluminium Sulphate, 10%	B	A	A
Aluminium Sulphate, Boiling	D	A	A
Amines	X	A	C
Ammonia, Anhydrous	B	A	C
Ammonium, Chloride, 10%	B	A	A
Ammonium Chloride, Boiling	D	A	A
Ammonium Hydroxide, Hot	B ²	A	A
Ammonium Nitrate	X	A	A
Ammonium Persulphate, 5%	B	A	A
Ammonium Phosphate, Dibasic, 5%	B	A	A
Ammonium Sulphate, < 10%	B	A	A
Ammonium Sulphate, > 10%, Boiling	B ²	A	A
Ammonium Sulphite, Boiling	B ²	A	A
Aniline Hydrochloride	B	A	A
Antimony Trichloride	X	A	A
Asphalt	X	A	A
Barium Chloride, 5%	X	A	A
Barium Chloride, > 5%, Hot	D	A	A
Barium Hydroxide	B	A	A
Barium Nitrate	B	A	A
Beer, 160°F	B ²	A	A

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Beet Sugar Liquor, Hot	B ²	A	A
Benzene, Hot	D	A	B
Benzoic Acid	X	A	A
Blood	X	A	A
Borax, Hot	B ²	A	A
Bromine, Dry & Moist Gas	X	A	A
Buttermilk	X	A	A
Butyric Acid, Dilute	B	A	A
Butyric Acid, Conc., Hot,	D	A	A
Calcium Bisulphite, Hot	B ²	A	A
Calcium Chloride, Dilute	B	A	A
Calcium Hydroxide, 10-30%, Boiling	B ²	A	B
Calcium Hypochloride, <2%	B	A	A
Carbolic Acid, 90%	D	A	A
Carbon Dioxide, Dry	B	A	A
Carbon Disulphide	D	A	A
Carbon Tetrachloride, Dry, Hot	D	A	A
Carbonic Acid, Sat.	B	A	A
Chloroacetic Acid	D	A	B
Chloric Acid	D	A	B
Chlorinated Water, Sat.	C	A	A
Chlorine, Dry Gas	D	A	A
Chlorine, Moist Gas	C	A	A
Chlorosulphonis Acid, Dilute	D	A	D
Chromic Acid, Dilute	D	A	C
Chromic Acid, Boiling	D	A	C
Citric Acid, Dilute	B	A	A
Citric Acid, Conc., Hot	D	A	X
Copper Nitrate, Conc., Hot	B ²	A	A
Copper Sulphate, Conc., Hot	B ²	A	A
Creosote, Hot	D	A	A

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Cupric Chloride, 0-5%	B	A	A
Dichlorethane, Boiling	D	A	X
Ethyl Chloride	D	A	X
Ethylene Glycol	B	A	A
Fatty Acids, 145°F	C	A	A
Ferric Chloride, < 1%	B	A	A
Ferric Chloride, > 1%	X	A	A
Ferric Chloride, Boiling	D	A	A
Ferric Nitrate, 5%	B	A	A
Ferric Sulphate, 5%	B	A	A
Ferrous Sulphate, 10%	B	A	A
Fluorine, Dry Gas	X	A	A
Fluorine, Dry, 300°F	D	D	A
Fluorine, Moist Gas	X	A	A
Formaldehyde, 40%	B	A	A
Formic Acid, < 50%	B	A	C
Formic Acid, > 50%	X	A	C
Formic Acid, Hot	D	A	D
Freon, Wet	X	A	A
Fuel Oil, 140°F	X	A	A
Furfural	X	A	D
Gasoline, Refined	B	A	A
Glycerine	B	A	A
Hydrochloric Acid	B	A	A
Hydrochloric Acid, 175°F	D	A	A
Hydrochloric Acid, Boiling	D	A	A
Hydrofluoric Acid, < 40%	B	A	A
Hydrofluoric Acid, > 40%	D	A	A
Hydrofluoric Acid, Boiling	D	A	B
Hydrofluosilicic Acid	B	A	X
Hydrogen Chloride, Dry & Moist	X	A	A

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Hydrogen Fluoride, Dry	X	A ¹	A
Hydrogen Peroxide, Boiling	B ²	A	B
Hydrogen Sulphide, Dry	X	A	X
Hydrogen Sulphide, Moist	B	A	X
Iodine, Dry	X	A	A
Kerosene	B	A	A
Lactic Acid, 5-10%	B	A	A
Lactic Acid, 5-10%, Boiling	D	A	A
Lead Acetate, Hot	B ²	A	A
Magnesium Chloride, 5%, Hot	B ²	A	A
Magnesium Hydroxide	B	A	A
Magnesium Sulphate	B	A	A
Magnesium Sulphate, Boiling	D	A	A
Mercury	X	A	A
Mercuric Chloride, <2%	B	A	A
Mercuric Chloride, <1/2%, Boiling	D	A	A
Mercuric Cyanide	X	A	A
Methyl Chloride, Dry	D	A	B
Milk	X	A	A
Molasses	X	A	A
Naptha	X	A	A
Nickel Chloride	B	A	A
Nickel Sulphate, Boiling	B ²	A	A
Nitric Acid, 20%	B	A	A
Nitric Acid, Fuming	D	A	B
Nitric Acid, 20%, Boiling	D	A	B
Nitric Acid, 65%, Boiling	D	A	C
Nitric Acid, Conc., Boiling	D	A	C
Nitrous Acid	X	A	A
Oxalic Acid, 0-10%	B	A	X
Oxalic Acid, 10-50%, Boiling	D	A	X

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Phosphoric Acid (Ortho), 0-50%	B	A	A
Phosphoric Acid (Ortho), > 50%	D	A	A
Phosphoric Acid (Ortho), 175°F	D	A	A
Phosphoric Acid (Ortho), < 10%, Boiling	D	A	A
Phosphoric Acid (Ortho), 85%, Boiling	D	A	X
Picric Acid	X	A	X
Potassium Bromide	X	A	A
Potassium Carbonate	B	A	A
Potassium Chlorate	B	A	A
Potassium Chloride	B	A	A
Potassium Chloride, Hot	D	A	A
Potassium Cyanide	B	A	A
Potassium Dichromate, Conc.	X	A	A
Potassium Ferricyanide, 5%	X	A	A
Potassium Ferrocyanide, 5%	X	A	A
Potassium Hydroxide, 50%	B	A	A
Potassium Hydroxide, 30-50%, 175°F	D	A	C
Potassium Hydroxide, 30-50%, Boiling	D	A	D
Potassium Hypochlorite, Dilute	B	A	A
Potassium Permanganate, Dilute	X	A	A
Potassium Sulphate, Dilute	B	A	A
Potassium Sulphate, Dilute, Boiling	D	A	A
Potassium Sulphide, Sat.	C	A	A
Propane, Liquid & Gas	X	A	A
Pyrogallic Acid	X	A	A
Rosin, Molten	D	A	A
Salicylic Acid	B	A	A
Silver Bromide	X	A	A
Silver Chloride	X	A	A
Silver Nitrate	X	A	A
Sodium Acetate	X	A	A

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Sodium Bisulphate	B	A	A
Sodium Bisulphate, 140°F	B	A	A
Sodium Bromide, Dilute	X	A	A
Sodium Carbonate, 5%, Hot	B ²	A	A
Sodium Chloride, Dilute	B	A	A
Sodium Chloride, Sat., Boiling	D	A	A
Sodium Cyanide	B	A	A
Sodium Fluoride, 5%	X	A	A
Sodium Hydroxide, 50%	C	A	A
Sodium Hydroxide, < 40%, 175°F	D	A	C
Sodium Hydroxide, 40-80%, 175°F	D	A	D
Sodium Hydroxide, Boiling	D	A	D
Sodium Hydroxide, Molten	D	D	D
Sodium Hypochlorite (Still), 5%	B	A	A
Sodium Hyposulphite	X	A	A
Sodium Nitrate	X	A	A
Sodium Perborate	B	A	A
Sodium Peroxide	X	A	A
Sodium Phosphate, Tribasic	B	A	A
Sodium Silicate	B	A	A
Sodium Sulphate (All Conc.)	B	A	A
Sodium Sulphate, Hot	D	A	A
Sodium Sulphide, Sat.	C	A	A
Sodium Sulphite, Hot	B ²	A	A
Sodium Thiosulphate	B	A	A
Stannic Chloride,	B	A	A
Stannic Chloride, SG 1.21, Boiling	D	A	A
Stannous Chloride, Sat.	B	A	A
Steam, 212°F	D	A	A
Steam, 600°F	D	D	D
Sulphite Liquors	B	A	A

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Sulphur, Molten, 266°F	D	A	A
Sulphur Chloride	X	A	A
Sulphur Dioxide, Dry, 250°F	D	A	A
Sulphur Dioxide, Moist	B	A	A
Sulphuric Acid, 0-40%	C	A	A
Sulphuric Acid, >40%	D	A	A
Sulphuric Acid, Conc.	D	A	A
Sulphuric Acid, 0-80%, Boiling	D	A	A
Sulphuric Acid, Conc., Boiling	D	A	A
Sulphurous Acid, Sat.	B	A	A
Tannic Acid, 10%	B	A	A
Tar, Hot	D	A	A
Tartaric Acid, 120°F	B	A	A
Toluene	X	A	A
Trichlorethylene	D	A	A
Turpentine	B	A	A
Varnish, Hot	D	A	X
Vegetable Oils	B	A	A
Vinegar	B	A	A
Water, Acid Mine	B	A	A
Water, Boiler Feed	X	A	A
Water, Distilled	A	A	A
Water, Salt Sea	B	A	A
Whiskey, Boiling	D	A	A
Wine	C	A	A
Xylene, Boiling	D	A	B
Zinc Chloride, 5%	B	A	A
Zinc Chloride, 5%, Boiling	D	A	A
Zinc Sulphate, Boiling	B ²	A	A
Boric Acid, 5%, Hot	B ²	A	A

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