



# CORROSION RESISTANCE TABLE

## BUTTERFLY VALVES HAVING NITRILE RUBBER LINERS

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Acetic Acid 10%	B	Calcium Chloride	B	Ferrous Sulphate	B
Acetylene (Dry)	A	Calcium Hydroxide	B	Formaldehyde	B
Air	A	Calcium Sulphate	A	Freon Gas (Wet) F12	B
Alcohol Butyl	A	Cane Sugar Liquor	A	Freon Gas (Dry) F12	B
Alcohol Ethyl	A	Carbonated Water	A	Fruit Juices	B
Alcohol Methyl	A	Carbon Dioxide (Dry)	B	Gallic Acid	B
Aluminium Chloride	B	Carbon Dioxide (Wet)	B	Gasoline (Refined)	B
Aluminium Hydroxide	A	Carbon Monoxide	A	Gasoline (Sour)	B
Aluminium Sulphate (Alum)	A	Carbonic Acid	A	Gas Natural	A
Ammonium Bicarbonate	A	Caustic Soda	B	Glycerine or Glycerol	A
Ammonium Bisulphite	B	Caustic Potash	A	Glycols	B
Ammonium Chloride	B	Citric Acid	A	Heptane	B
Ammonium Hydroxide	B	Citric Acid Solutions	A	Hexane	A
Ammonium Nitrate	A	Copper Chloride (Dry)	B	Hydrogen Gas	A
Ammonium Phosphate Mono Basic	B	Copper Nitrate	A	Hypo (Sodium Thiosulphate)	A
Ammonium Phosphate Di-Basic	B	Copper Sulphate	A	Kerosene	B
Ammonium Phosphate Tri-Basic	B	Corn Oil	A	Lactic Acid (Dilute)	B
Ammonium Sulphate (Neutral)	A	Cotton Seed Oil	B	Linoleic Acid	B
Arsenic Acid	B	Caustic Potash	A	Linseed Oil	A
Barium Carbonate	B	Citric Acid	A	Lubricating Oil	A
Barium Chloride	B	Citric Acid Solutions	A	Magnesium Chloride	B
Barium Hydroxide	A	Copper Chloride (Dry)	B	Magnesium Hydroxide	A
Barium Sulphate	A	Copper Nitrate	A	Magnesium Nitrate	B
Barium Sulphide	A	Copper Sulphate	A	Magnesium Sulphate	A
Beer (Alcohol Ind.)	A	Corn Oil	A	Maleic Acid	B
Beer (Beverage Ind.)	B	Cotton Seed Oil	B	Mercury	A
Beet Sugar Liquor	A	Cyanide Plating Solution	B	Methyl Alcohol	A
Borax (Sodium Borate)	B	Disodium Phosphate	A	Methyl Alcohol	B
Boric Acid (Boracic Acid)	A	Ethyl Alcohol	A	Natural Gas	A
Brine	A	Ethylene Glycol	B	Nickel Chloride	B
Butane	A	Fatty Acids	B	Nickel Nitrate	B
Butadiene	B	Ferric Chloride	B	Nickel Sulphate	B
Butyl Alcohol	A	Ferric Nitrate	B	Oleic Acid	B
Calcium Bisulphite	B	Ferric Sulphate	A	Palmitic Acid	B
Calcium Carbonate	A	Ferrous Chloride	B	Pentane	A



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Phosphoric Acid < 25%	B	Sodium Borate	B	Turpentine	B
Potassium Bicarbonate	B	Sodium Bromide (10%)	B	Urea	A
Potassium Bisulphite	A	Sodium Carbonate	A	Vegetable Oils (Containing Acids)	B
Potassium Carbonate	A	Sodium Chlorate	B	Vegetable Oils (Acid Free)	B
Potassium Chlorate	B	Sodium Chloride	B	Vinegar	B
Potassium Chloride	B	Sodium Fluoride	A	Water, Acidmine Containing	B
Potassium Chromate	B	Sodium Hydroxide < 50%	B	Oxidizing Salts	
Potassium Hydroxide < 50%	B	Sodium Nitrate	B	Water, Acidmine No Oxidizing Salts	B
Potassium Phosphate	B	Sodium Nitrite	A	Water, Fresh	A
Potassium Bicarbonate	B	Sodium Peroxide Solution	B	Water, Fresh Boiler Feed	A
Potassium Bisulphite	A	Sodium Phosphate Mono Basic	A	Water, Brackish	A
Potassium Carbonate	A	Sodium Phosphate Di-Basic	A	Water, Distilled Laboratory Grade	A
Potassium Chlorate	B	Sodium Phosphate Tri-Basic	A	Water, Distilled Return Condensate	A
Potassium Chloride	B	Sodium Silicate	A	Zinc Chloride	B
Potassium Chromate	B	Sodium Sulphate (Salt Cake)	A	Zinc Sulphate	B
Potassium Hydroxide < 50%	B	Sodium Sulphide	A	Water, Brackish	A
Potassium Phosphate	B	Sodium Sulphite	A	Water, Distilled Laboratory Grade	A
Potassium Sulphate	A	Sodium Thisulfate (Hypo)	B	Water, Distilled Return Condensate	A
Potassium Triphosphate	B	Stannic Chloride	B	Zinc Chloride	B
Propane Gas	A	Stannous Chloride	B	Zinc Sulphate	B
Sea Water	B	Starch	A		
Silver Nitrate	B	Stearic Acid	B		
Soda Ash	A	Steep Water (Corn Product)	B		
Sodium Acetate	B	Tannic Acid (Tannin)	A		
Sodium Aluminate	A	Tartaric Acid	B		
Sodium Bicarbonate	A				
Sodium Bisulphite	B				

#### Key

**A** = Substantial resistance. Satisfactory service can be expected

**B** = Moderate resistance. May be used where a somewhat limited life would be acceptable

Service recommendations must take into consideration specific environmental conditions which often have a profound influence on the nature of the corrosive service and hence on the behaviour of materials. Temperature, aeration, inhibiting or accelerating contaminants, and velocities are examples of the factors of ten encountered. Occasionally a user's experience, under identical or similar conditions, may indicate an exception to a recommendation in the table below. In such a case further investigation is advised.