

Chemical Resistance Guide

Explanation of Ratings: A = Excellent B = Good C = Fair D = Poor								
Chemicals	Buna-N	EPDM	Hypalon	Neoprene	Viton	Bronze	Ductile Iron	Stainless Steel
Acetone	P	B	P	P	P	A	A	A
Air - Dry	A	A	A	A	A	A	A	A
Alcohol Butyl	B	B	B	B	A	B	A	A
Alcohol Ethyl	A	A	B	B	-	B	A	B
Alcohol Methyl	B	A	A	A	A	B	A	A
Asphalt	C	P	-	-	B	A	A	A
Aluminum Acetate	C	B	-	-	C	P	P	A
Ammonia Gas	B	A	P	B	P	A	-	A
Ammonia Liquid	C	A	P	B	P	P	-	A
Aniline Dies	P	B	C	C	B	P	B	A
Barium Nitrate	A	A	A	B	A	B	A	A
Beer	A	A	A	B	A	B	P	-
Beet Sugar Liquers	-	A	A	B	C	A	B	A
Benzene (Benzol)	P	P	P	P	B	B	A	B
Brines, Saturated	B	B	B	B	B	B	P	B
Butane	P	A	B	B	B	A	A	B
Calcium Chloride	C	A	A	A	A	B	A	B
Carbon Tetrachloride	P	P	-	-	C	P	C	A
Chlorinate (10 ppm)	C	B	-	-	B	P	-	B
Citric Acid	B	B	A	A	-	P	P	A
Diesel Oil	A	P	C	C	P	A	A	A
Dioxane	P	P	B	B	P	A	A	A
Ethylene Glycol	A	A	A	A	A	B	A	B
Freon	B	A	A	A	P	B	B	A
Fructose	A	A	-	-	A	-	A	P
Fuel Oil	A	P	C	C	A	B	B	A
Gas, Natural	B	P	A	A	A	B	A	A
Gas, Sour	C	P	-	-	B	B	B	B
Gasoline	A	P	B	B	A	B	A	A
Glucose	A	B	A	A	-	A	A	-
Grease	A	P	-	-	A	P	A	A
Ink, Newsprint	B	A	-	B	B	P	A	A
JP-4 Jet Fuel	A	P	P	P	A	A	A	A
Kerosene	A	P	C	B	A	A	A	A
Keytones	P	A	P	P	P	A	A	A
Latex	A	C	C	C	B	-	A	A
Linseed Oil	A	C	B	B	A	A	A	A

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Chemicals	Buna-N	EPDM	Hypalon	Neoprene	Viton	Bronze	Ductile Iron	Stainless Steel
LPG	A	P	P	C	B	A	A	B
Mineral Oils	A	P	B	B	A	A	A	A
Minewater	A	B	C	C	A	C	P	-
Molasses	A	P	A	A	B	A	A	A
Naptha	B	P	P	P	B	B	A	P
Nitric Acid, 10%	P	B	A	B	A	P	P	B
Nitric Acid, 100%	P	P	-	-	C	P	P	B
Nitrogen	A	A	A	A	A	A	A	A
Oleic Acid	B	C	B	B	C	B	C	B
Oxygen	C	A	A	A	A	A	A	A
Paints, Solvent Base	P	A	-	-	-	A	A	A
Parafin	A	P	A	A	A	A	B	A
Phenol Gas	P	C	C	C	B	P	P	A
Tar	C	P	-	C	B	A	A	A
Salt Water	A	A	A	B	A	C	P	A
Sewage	A	B	A	A	A	C	B	B
Soap Solutions	A	A	A	A	A	B	B	A
Sugar	A	A	B	B	A	P	B	A
Sulfate Liquor	P	C	B	B	B	P	-	A
Sulfite Liquor	C	A	B	B	B	P	B	B
Sulfuric Acid, 0-77%	C	B	B	P	B	P	P	B
Sulfuric Acid, 100%	P	P	B	P	P	P	P	P
Tannic Acid (Tannin)	B	A	A	A	B	B	B	B
Toluol (Toluene)	C	P	P	P	B	A	A	A
Trichlorethylene	-	P	P	P	B	A	-	A
Turpentine	C	P	C	C	A	A	A	A
Varnish	B	P	-	-	B	B	-	-
Vinegar	P	A	A	B	A	P	P	A
Water and Lime	A	A	B	B	A	P	P	A

Temperature Limitations

Buna-N	+10 F to +180 F
EPDM	-30 to +250 F
Hypalon	0 to +250 F
Neoprene - FDA	0 to +180 F
Viton	-20 F to +300 F
Viton - High Temp	-30 F to +400 F

Note: This guide is intended to be an aid in selecting the proper material for different fluids. The information should be used as a general guide and should not be taken as a definite material compatibility. For example, temperature has a definite effect on material compatibility. To insure acceptable compatibility for your combination of fluids and materials, it is recommended that an actual test of the elastomers and fluids be performed at the expected temperature and pressure.