

- A - Excellent
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CHEMICAL RESISTANCE GUIDE INDUSTRIAL CHEMICALS

CHEMICAL	CPVC	PVC	Ryton	Polypropylene	Polyethylene	Lucite	Acrylic	Teflon	SS 316	CARP 20	EPDM	Silastic	Ceramic	Hypalon	Viton
ACE TALDEHYDE	E	E	A	C	X	E	E	A	A	A	A	B	A	E	A
ACETIC ACID, 20%	B	B	A	A	B	A	A	A	A	A	A	B	A	A	E
ACETIC ACID, 80%	D	D	A	B	B	D	D	A	A	A	B	D	A	A	E
ACETIC ACID, GLACIAL	E	D	A	C	A	E	E	A	A	A	A	X	A	E	E
ACETIC ANHYDRIDE	E	E	A	A	X	E	E	A	D	C	B	E	A	A	E
ACETONE	E	E	A	B	D	E	E	A	A	A	A	D	A	D	E
ALUMINUM CHLORIDE	A	A	A	A	A	A	A	A	D	D	A	D	A	A	A
ALUMINUM FLUORIDE	A	A	A	A	X	A	A	A	C	D	A	D	X	A	A
ALUMINUM SULFATE	A	A	A	A	A	A	A	A	D	B	A	X	A	A	A
AMMONIA, 10%	A	A	A	A	B	A	A	A	A	A	B	E	A	A	A
AMMONIUM CHLORIDE	A	A	A	A	A	A	A	A	D	C	A	X	A	A	A
AMMONIUM NITRATE	A	A	A	A	X	A	A	A	A	A	A	X	A	A	A
AMMONIUM PERSULFATE	A	A	A	A	X	A	A	A	C	B	A	X	A	A	A
AMMONIUM PHOSPHATE	A	A	A	A	X	A	A	A	A	A	A	A	A	A	A
AMMONIUM SULFATE	A	A	A	A	A	A	A	A	B	A	A	X	A	B	B
AMYL ACETATE	E	E	A	E	E	E	E	A	A	A	A	E	A	E	E
AMYL ALCOHOL	B	B	X	X	X	E	E	A	A	A	B	E	A	B	B
AMYL CHLORIDE	E	E	A	X	X	E	E	A	C	A	A	E	A	E	A
ANILINE	E	E	A	C	D	E	E	A	A	A	A	X	A	B	A
AQUA REGIA	E	E	X	X	D	E	E	A	E	E	D	X	A	B	A
ARSENIC ACID	A	A	A	A	X	A	A	A	X	B	A	A	A	X	A
BARIIUM CHLORIDE	A	A	A	A	X	A	A	A	C	B	A	A	A	B	B
BARIIUM SULFATE	A	A	A	A	X	A	A	A	B	B	A	A	A	A	A
BEER	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A
BENZALDEHYDE	E	E	A	C	X	E	E	A	A	A	A	E	A	E	E
BENZENE (BENZOL)	E	E	A	C	E	E	E	A	A	A	E	E	A	E	D
BENZOIC ACID	A	A	A	A	A	C	C	A	B	B	X	D	A	E	A
BORAX (SODIUM BORATE)	A	A	A	A	D	X	X	A	A	A	A	D	A	B	B
BORIC ACID	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B
BROMINE WATER	C	C	D	E	X	X	X	A	E	E	D	E	A	E	A
BUTYL ACETATE	E	E	A	E	X	X	X	A	B	B	C	E	A	E	E
BUTYRIC ACID	D	D	X	A	X	D	D	A	B	A	B	X	A	E	D
CALCIUM BISULFITE	A	A	A	A	A	X	X	A	B	B	E	A	A	A	A
CALCIUM CHLORIDE	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A
CALCIUM HYPOCHLORITE	A	A	A	A	A	A	A	A	D	D	B	D	A	A	D
CALCIUM SULFATE	A	A	A	A	X	A	A	A	B	B	B	D	A	A	A
CARBON TETRACHLORIDE	C	C	A	C	E	X	X	A	B	B	X	E	A	E	A
CARBONIC ACID	A	A	A	A	X	A	A	A	B	A	A	X	E	A	B
CHLOROACETIC ACID	A	A	A	D	X	E	E	A	E	X	E	X	A	A	A
CHLORINE WATER	A	A	A	E	B	X	X	A	E	B	B	X	A	B	A
CHLOROBENZENE	E	E	A	C	X	E	E	A	A	A	E	E	A	E	A
CHLOROFORM	E	E	A	E	X	E	E	A	A	A	E	E	A	E	D
CHLOROSULFONIC ACID	C	C	E	E	E	E	E	A	D	D	E	X	A	X	E
CHROMIC ACID, 10%	A	A	A	A	A	A	A	A	B	A	E	D	A	A	A
CHROMIC ACID, 30%	A	A	A	A	A	A	A	A	B	A	E	E	A	A	A
CHROMIC ACID, 50%	E	E	D	A	B	D	D	A	C	B	E	E	A	A	A
CITRIC ACID	A	A	A	A	A	A	A	A	B	A	A	B	A	A	A
COPPER CHLORIDE	A	A	A	A	B	A	A	A	B	B	B	B	A	B	B
COPPER CYANIDE	A	A	A	A	X	A	A	A	A	B	B	B	A	X	B
COPPER NITRATE	A	A	A	A	X	A	A	A	A	B	A	A	A	B	B
COPPER SULFATE	A	A	A	A	A	A	A	A	B	A	B	B	A	B	B
CRESYLIC ACID	B	B	X	X	X	X	X	A	A	A	E	X	A	X	A
ETHYL ACETATE	E	E	A	C	X	E	E	A	B	B	D	D	A	E	E
ETHYL CHLORIDE	E	E	A	E	X	E	E	A	A	A	B	E	A	D	A
ETHYLENE GLYCOL	A	A	A	A	X	A	A	A	B	A	B	A	A	B	B
FATTY ACIDS	A	A	A	A	E	D	D	A	A	A	X	D	A	X	B
FERRIC CHLORIDE	A	A	A	A	A	A	A	A	E	E	A	B	A	B	B

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CHEMICAL	CpVC	PVC	Ryton	Polypropylene	Polyethylene	Lucite	Acrylic	Teflon	SS 316	CARP 20	EPDM	Silastic	Ceramic	Hypalon	Viton
FERRIC NITRATE	A	A	A	A	E	A	A	A	B	A	A	D	A	B	B
FERRIC SULFATE	A	A	A	A	E	A	A	A	A	A	A	D	A	B	B
FEROUS CHLORIDE	A	A	A	A	A	A	A	A	E	E	B	X	A	B	B
FEROUS SULFATE	A	A	A	A	B	A	A	A	D	B	B	X	A	B	B
FLUOBORIC ACID	A	A	A	A	E	B	B	A	B	A	B	X	E	B	X
FLUOSILICIC ACID	A	A	A	A	A	B	B	A	B	B	X	X	E	X	B
FORMALDEHYDE, 40%	B	B	A	A	B	A	A	A	A	A	A	X	A	B	E
FORMIC ACID	C	C	A	A	B	E	E	A	B	A	B	D	A	B	E
FREON 12 (WET)	C	C	X	A	X	X	X	A	E	X	D	E	A	E	A
FUEL OILS	A	A	A	C	X	X	X	A	A	A	E	E	A	B	B
FURFURAL	E	E	A	E	X	X	X	A	B	A	D	X	A	X	E
GASOLINE	C	C	A	E	X	E	E	A	A	A	E	E	A	E	A
GLYCERINE (GLYCEROL)	A	A	A	A	X	A	A	A	A	A	A	A	A	B	B
HEPTANE	A	A	A	C	X	X	X	A	A	A	X	E	A	B	B
HEXANE	C	C	A	C	X	X	X	A	A	A	E	X	A	B	B
HYDROBROMIC ACID, 20%	A	A	A	A	B	X	X	A	E	E	B	E	C	A	A
HYDROCHLORIC ACID, 0-25%	A	A	A	A	B	A	A	A	E	E	C	E	C	A	B
HYDROCHLORIC ACID, 25-37%	A	A	A	A	B	A	B	A	E	E	C	E	C	A	A
HYDROCYANIC ACID	A	A	A	A	B	A	B	A	A	A	B	E	C	X	A
HYDROFLUORIC ACID, 10%	C	C	A	A	A	A	B	A	C	C	B	E	E	A	A
HYDROFLUORIC ACID, 30%	C	C	A	B	D	D	E	A	C	C	C	E	E	A	A
HYDROFLUORIC ACID, 60%	D	D	C	B	E	D	E	A	C	C	D	E	E	D	A
HYDROFLUOSILICIC ACID, 20%	A	A	A	A	A	B	D	A	B	B	A	E	E	X	B
HYDROGEN PEROXIDE, 30%	A	A	B	A	B	A	B	A	B	A	D	A	X	A	A
HYDROGEN PEROXIDE, 50%	C	C	D	X	B	X	X	A	B	A	E	B	X	A	A
HYDROGEN PEROXIDE, 90%	E	E	D	X	D	X	E	A	B	A	E	B	X	D	A
HYDROGEN SULFIDE, AQ. SOL.	C	C	A	A	X	A	B	A	B	A	A	D	X	B	B
IODINE (IN ALCOHOL)	E	E	A	C	E	X	E	A	B	B	E	E	A	E	A
KEROSENE	B	B	A	C	X	A	X	A	A	A	E	E	A	E	A
KETONES	E	E	A	E	X	E	E	A	A	A	X	X	A	E	E
LACQUER THINNERS	D	D	A	C	X	E	E	A	A	A	E	E	A	X	X
LACTIC ACID	B	B	A	A	A	D	E	A	B	A	A	B	A	B	B
LEAD ACETATE	A	A	A	A	X	A	A	A	A	A	A	E	A	E	A
LUBRICATING OIL	C	C	A	C	D	A	A	A	A	A	E	E	A	D	A
MAGNESIUM CHLORIDE	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A
MAGNESIUM NITRATE	A	A	A	A	X	A	A	A	A	A	B	B	A	A	A
MAGNESIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MALEIC ACID	A	A	A	A	X	X	E	A	B	A	E	X	A	A	A
METHYL ALCOHOL	C	C	X	A	E	X	E	A	A	A	B	A	A	B	D
METHYL CHLORIDE	E	E	X	E	X	E	E	A	A	A	D	X	A	E	A
METHYL ETHYL KETONE	E	E	A	C	X	E	E	A	A	A	B	D	A	E	E
METHYL ISOBUTYL KETONE	E	E	A	C	X	E	E	A	A	A	D	D	A	E	E
METHYLENE CHLORIDE	E	E	X	E	X	E	E	A	A	A	E	X	A	E	D
NAPHTHA	B	B	A	C	X	E	E	A	A	A	E	E	A	E	A
NAPHTHALENE	E	E	A	C	X	X	E	A	A	A	E	E	A	E	D
NICKEL CHLORIDE	A	A	A	A	A	A	A	A	B	B	A	B	A	B	B
NICKEL SULFATE	A	A	A	A	A	A	A	A	B	A	A	A	A	B	B
NITRIC ACID, 10%	A	A	A	A	A	D	E	A	B	A	D	B	A	A	A
NITRIC ACID, 20%	A	A	A	A	B	E	E	A	B	A	E	D	A	A	A
NITRIC ACID, 50%	A	A	C	C	C	E	E	A	B	A	E	E	A	E	A
NITRIC ACID, ANHYDROUS	E	E	D	E	E	E	E	A	B	A	X	E	A	E	B
NITRO BENZENE	E	E	A	C	X	E	E	A	B	A	E	E	A	E	E
OILS AND FATS	A	A	A	A	X	X	X	A	A	A	E	X	A	X	A
OLEIC ACID	A	A	A	C	E	X	E	A	B	B	D	X	A	D	D
OLEUM, 25%	E	E	X	X	E	E	E	A	X	X	X	X	A	E	A
OXALIC ACID	A	A	A	A	B	D	D	A	C	B	B	D	A	A	A
PHENOL	C	C	A	B	C	A	A	A	B	B	D	D	A	E	A

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PHOSPHORIC ACID, 0-50%	A	A	A	A	A	A	B	A	B	B	D	E	A	A	B
PHOSPHORIC ACID, 50-100%	B	B	A	B	B	A	D	A	B	B	E	E	A	A	B
POTASSIUM BICARBONATE	A	A	A	A	B	A	A	A	B	B	A	X	A	B	B
POTASSIUM BROMIDE	A	A	A	A	B	A	A	A	B	B	A	X	A	B	B
POTASSIUM CARBONATE	A	A	A	A	B	A	A	A	B	B	A	X	A	B	B
POTASSIUM CHLORATE	A	A	A	A	B	A	A	A	A	A	B	B	A	B	B
POTASSIUM CHLORIDE	A	A	A	A	A	A	A	A	D	C	A	B	A	B	B
POTASSIUM CYANIDE	A	A	A	A	X	A	A	A	A	B	B	A	A	B	B
POTASSIUM DICHROMATE	A	A	A	A	B	A	A	A	A	A	B	A	A	B	B
POTASSIUM HYDROXIDE	A	A	A	A	A	D	E	A	B	B	D	D	E	B	B
POTASSIUM NITRATE	A	A	A	A	A	A	A	A	B	B	B	A	A	B	B
POTASSIUM PERMANGANATE	A	A	A	A	A	A	A	A	B	B	B	B	A	B	B
POTASSIUM SULFATE	A	A	A	A	A	A	A	A	B	B	A	A	A	B	B
PROPYL ALCOHOL	C	C	X	X	X	X	X	A	A	A	B	A	A	B	B
SOAPS	A	A	A	A	C	A	A	A	A	A	A	A	A	B	B
SODIUM ACETATE	A	A	A	A	A	A	A	A	B	B	A	X	A	A	E
SODIUM BICARBONATE	A	A	A	A	A	A	A	A	B	A	A	A	A	B	B
SODIUM BISULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B
SODIUM BISULFITE	A	A	A	A	A	A	A	A	B	B	A	B	A	B	B
SODIUM CARBONATE	A	A	A	A	A	A	A	A	B	A	B	A	A	B	B
SODIUM CHLORATE	A	A	A	A	A	A	A	A	B	B	B	X	A	B	B
SODIUM CHLORIDE	A	A	A	A	A	A	A	A	B	B	B	A	A	B	B
SODIUM CYANIDE	A	A	A	A	X	A	A	A	A	A	B	B	A	B	B
SODIUM HYDROXIDE, 20%	A	A	A	A	A	D	D	A	A	A	B	D	E	B	E
SODIUM HYDROXIDE, 50%	A	A	A	A	B	D	E	A	A	A	C	D	E	B	E
SODIUM HYPOCHLORITE	A	A	A	A	A	A	A	A	D	X	B	D	A	A	D
SODIUM NITRATE	A	A	A	A	A	A	A	A	A	A	A	E	A	B	B
SODIUM SILICATE	A	A	A	A	A	A	A	A	B	B	A	X	A	A	A
SODIUM SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B
SODIUM SULFIDE	A	A	A	A	A	A	A	A	B	B	B	X	A	B	B
STANNIC CHLORIDE	A	A	A	A	A	A	A	A	E	C	D	D	A	D	B
STEARIC ACID	A	A	A	C	E	X	E	A	A	A	D	A	A	D	A
STODDARDS SOLVENT	E	E	A	X	X	X	X	A	A	A	E	E	X	X	A
SULFURIC ACID, 0-10%	A	A	A	A	A	A	D	A	E	A	D	E	A	A	A
SULFURIC ACID, 10-75%	A	A	B	A	C	D	E	A	E	A	E	E	A	A	A
SULFURIC ACID, 75-100%	C	C	C	C	C	E	E	A	E	A	E	E	A	D	A
TANNIC ACID	A	A	A	A	B	X	X	A	B	B	B	D	A	B	B
TANNING LIQUORS	A	A	A	A	A	X	X	A	A	A	E	X	A	X	A
TARTARIC ACID	A	A	A	A	X	X	E	A	B	B	D	B	A	B	B
TETRAHYDROFURANE	E	E	A	C	X	X	E	A	A	A	D	X	A	X	X
TOLUENE (TOLUOL)	E	E	A	C	E	E	E	A	A	A	E	X	A	E	E
TRICHLOROETHYLENE	E	E	A	C	E	X	X	A	B	B	E	X	A	E	A
TRICRESYLPHOSPHATE	E	E	A	X	X	X	X	A	A	A	B	X	A	E	A
TURPENTINE	B	B	A	C	X	X	X	A	A	A	E	X	A	E	A
UREA	A	A	A	A	X	X	X	A	B	B	X	X	A	A	E
VINEGAR	A	A	A	A	A	A	A	A	A	A	A	B	A	B	B
WHITE LIQUOR (ACID)	A	A	A	X	X	X	E	A	A	A	X	X	A	X	A
XYLENE (XYLOL)	E	E	A	E	E	E	E	A	A	A	E	E	A	E	A
ZINC CHLORIDE	A	A	A	A	A	A	A	A	B	A	A	X	A	B	B
ZINC SULFATE	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

The following pages are offered as a general guide and indication of the suitability of various elastomers in use today for service in these chemicals and fluids. The ratings are based, for the most part, on published literature of various polymer suppliers and rubber manufacturers but, in some cases, they are the considered opinion of experienced compounds. We cannot guarantee their accuracy nor assume responsibility for use thereof.