

# Chemical Resistance Chart

A = Good Resistance | B = Fair Resistance | C = Depends on Conditions | D = Not Recommended

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**		Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Acetal	D	B	D	-	A	B	Amyl Acetone	D	B	D	-	A	B
Acetaldehyde	D	A	D	B	A	A	Amyl Alcohol	A	A	A	D	A	A
Acetamide	A	A	B	-	A	A	Amyl Borate	A	D	A	-	A	D
Acetate Solvents	D	A	D	-	A	C	Amyl Chloride	D	D	A	D	A	D
Acetic Acid, 10%	B	A	C	-	A	B	Amyl Chloronapthalene	D	D	A	-	A	D
Acetic Acid, 30%	D	A	C	-	A	B	Amyl Napthalene	D	D	A	-	A	D
Acetic Acid, 50%	D	A	D	-	A	B	Amyl Oleate	D	B	C	-	A	B
Acetic Acid, Glacial	D	A	D	-	A	B	Amyl Phenol	D	D	A	-	A	D
Acetic Anhydride	D	B	D	D	A	B	Anethole	D	D	B	-	A	D
Acetic Ester (Ethyl Acetate)	D	A	D	-	A	B	Aniline	D	D	B	B	B	B
Acetic Ether (Ethyl Acetate)	D	A	D	-	A	B	Aniline Dyes	D	B	B	-	A	B
Acetic Oxide (Acetic Anhydride)	D	B	D	-	A	B	Aniline Hydrochloride	B	B	B	-	A	B
Acetone	D	A	D	D	A	B	Animal Fats	A	C	A	-	A	C
Acetophenome	D	A	D	-	A	A	Animal Grease	A	C	A	-	A	D
Acetyl Acetone	C	B	D	-	A	B	Animal Oils	A	C	A	-	A	C
Acetyl Chloride	D	C	B	C	A	C	Ansul Ether	D	C	D	-	A	D
Acetylene	A	B	A	-	A	A	Antifreeze	A	A	A	-	A	A
Acrylonitrile	D	D	D	-	A	D	Antimony Chloride	A	D	A	-	A	B
Air	A	A	A	A	A	A	Antimony Pentachloride	B	D	A	-	A	D
Alcohol Aliphatic	A	A	C	-	B	A	Aqua Regia	D	B	A	-	A	C
Alcohol, Aromatic	C	D	A	-	A	D	Aromatic Hydrocarbons	D	D	A	-	A	D
Alk-Tri (Trichloroethylene)	D	D	A	-	A	D	Arquad	A	A	A	-	A	A
Allyl Alcohol	A	A	B	-	A	A	Arsenic Acid	A	A	A	-	A	A
Allyl Bromide	D	D	B	-	A	D	Arsenic Chloride	C	D	D	-	A	D
Allyl Chloride	D	D	A	-	A	D	Arsenic Trichloride	A	D	D	-	A	D
Alum (Alum Potassium Sulfate)	A	A	A	-	A	A	Asphalt	B	D	A	-	A	D
Aluminum Acetate	C	A	A	-	A	A	ASTM #1 Oil	A	D	A	-	A	D
Aluminum Chloride	A	A	A	B	A	A	ASTM #2 Oil	A	D	A	-	A	D
Aluminum Fluoride	A	A	A	-	A	A	ASTM #3 Oil	A	D	A	-	A	D
Aluminum Hydroxide	A	A	A	-	A	A	Aviation Gasoline	A	D	A	-	A	D
Aluminum Phosphate	A	A	A	-	A	A	Barium Carbonate	A	A	A	-	A	A
Aluminum Nitrate	A	A	A	-	A	A	Barium Chloride	A	A	A	-	A	A
Aluminum Sulfate	A	A	A	A	A	A	Barium Hydroxide	A	A	A	-	A	A
Ammonia, Liquid	B	A	A	-	A	A	Barium Sulfate	A	A	A	-	A	A
Ammonia in Water	C	A	B	-	A	B	Barium Sulfide	A	A	A	-	A	A
Ammonium Carbonate	C	A	A	C	A	A	Beer	A	A	A	-	A	A
Ammonium Chloride	A	A	A	C	A	A	Beet Sugar Liquor	A	A	A	-	A	A
Ammonium Hydroxide	B	A	B	A	A	A	Benzaldehyde	D	A	D	-	A	B
Ammonium Metaphosphate	A	A	A	-	A	A	Benzene (Benzol)	D	D	A	-	A	D
Ammonium Nitrate	A	A	A	C	A	A	Benzene Sulphonic Acid	D	D	A	D	A	D
Ammonium Persulfate	D	B	A	A	A	A	Benzine Solvent (Ligroin)	A	D	A	-	A	D
Ammonium Phosphate	A	A	A	-	A	A	Benzoic Acid	D	D	A	-	A	D
Ammonium Sulfate	A	A	A	A	A	A	Benzoic Aldehyde	D	A	D	-	A	B
Ammonium Sulfide	A	A	A	-	A	A	Benzotrichloride	-	-	-	-	A	-
Ammonium Sulfite	A	A	A	-	A	A	Benzoyl Chloride	D	D	B	-	A	D
Ammonium Thiocyanate	A	A	A	-	A	A	Benzyl Acetate	D	B	D	-	A	B
Ammonium Thiosulfate	A	A	A	-	A	A	Benzyl Alcohol	D	B	A	-	A	B
Amyl Acetate	D	A	A	D	A	B	Benzyl Chloride	D	D	A	-	A	D

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# Chemical Resistance Chart

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	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Bichromate of Soda (Sodium Dichromate)	A	A	A	-	A	A
Black Sulfate Liquor	A	A	A	-	A	A
Blast Furnace Gas	C	C	A	-	A	C
Bleach Solutions	D	B	B	-	A	B
Borax	A	A	A	-	A	A
Bordeaux Mixture	A	A	A	-	A	A
Brandy	FDA TUBE REQUIRED					
Brine	A	A	A	-	A	A
Bromine	D	D	A	D	A	D
Bromine Water	C	C	A	-	A	C
Bromobenzene	D	D	B	-	A	D
Bunker Oil	A	D	A	-	A	D
Butanol	A	A	A	B	A	A
Butane	A	D	A	D	A	D
Butter	A	A	A	-	-	A
Butyl Acetate	D	A	D	D	A	B
Butyl Acrylate	D	D	D	-	A	D
Butylamine	C	C	D	-	A	C
Butyl Benzene	D	D	A	-	-	D
Butyl Bromide	D	D	B	-	-	D
Butyl Butyrate	D	B	C	-	-	C
Butyl Carbitol	B	A	A	-	-	A
Butyl Cellosolve	B	A	D	-	-	A
Butyl Chloride	D	D	A	-	A	C
Butyl Ether	B	C	D	-	A	C
Butyl Ethyl Acetaldehyde	D	D	D	-	-	C
Butyl Ethyl Ether	D	C	C	-	A	C
Butyl Oleate	D	B	A	-	-	B
Butyl Phthalate	D	A	C	-	-	C
Butyl Stearate	B	C	A	-	A	C
Butyraldehyde	D	D	D	-	A	D
Butyric Acid	C	C	C	D	A	C
Butyric Anhydride	C	C	C	-	A	C
Calcium Acetate	D	A	D	-	A	A
Calcium Bisulfate	A	B	A	-	A	B
Calcium Bisulfite	A	A	A	-	A	A
Calcium Carbonate	A	A	A	-	A	A
Calcium Chloride	A	A	A	-	A	A
Calcium Hydroxide	A	A	A	-	A	A
Calcium Hypochlorite	D	A	A	-	A	A
Calcium Nitrate	A	A	A	-	A	A
Calcium Oxide	-	-	-	A	-	-
Calcium Salts	-	-	-	B	-	-
Calcium Sulfate	A	A	A	-	A	A
Calcium Sulfide	A	A	A	-	A	A
Calcium Sulfite	A	A	A	-	A	A
Caliche Liquor	A	A	A	-	A	A
Cane Sugar Liquors	A	A	A	-	A	A

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Carbitol	B	B	A	-	-	A
Carbitol Acetate	D	B	D	-	-	B
Carbolic Acid	C	A	A	-	A	C
Carbon Bisulfide	D	D	A	-	A	D
Carbon Dioxide	A	A	A	B	A	A
Carbon Disulfide	D	D	A	-	A	D
Carbonic Acid	A	A	A	-	A	A
Carbon Monoxide	C	C	A	-	A	C
Carbon Tetrachloride	C	D	A	D	A	D
Carbon Tetrafluoride	C	D	-	-	A	D
Castor Oil	A	A	A	-	A	A
Caustic Potash	A	A	C	-	A	A
Caustic Soda	B	A	C	-	-	A
Cellosolve	D	A	C	-	A	A
Cellulose Acetate	D	B	D	-	A	B
Cellulube	D	A	C	-	-	B
China Wood Oil	A	A	C	-	A	A
Chlorine Dioxide	D	D	A	-	-	D
Chlorine Gas	D	D	A	-	A	D
Chlorine Water Solns	D	D	C	-	A	D
Chloroacetic Acid	C	A	D	-	A	D
Chloroacetone	D	D	D	-	-	B
Chlorobenzene	D	D	A	D	A	D
Chlorobutane	D	D	A	-	-	D
Chlorobutadiene	D	D	A	-	-	D
Chloroform	D	D	A	D	A	D
Chlorinated Hydrocarbon	D	D	A	-	A	D
Chloropentane	D	D	A	-	-	D
Chlorophenol	D	D	A	-	A	D
Chloropropanone	D	C	D	-	A	C
Chlorosulfonic Acid	C	D	D	D	-	D
Chlorothene	D	D	A	-	A	D
Chlorotoluene	D	D	A	-	A	D
Chromic Acid	D	C	C	D	A	C
Citric Acid	B	A	A	-	A	A
Coal Oil	A	D	A	-	-	D
Coal Tar	A	B	A	-	A	D
Coal Tar Naptha	C	D	A	-	A	D
Coblat Chloride	A	A	A	-	-	A
Coconut Oil	A	A	A	-	A	B
Cod Liver Oil	A	A	A	-	A	A
Coke Oven Gas	C	D	D	-	A	C
Copper Arsenate	A	A	A	-	A	A
Copper Chloride	A	A	A	-	A	A
Copper Cyanide	A	A	A	-	A	A
Copper Nitrate	A	A	A	-	A	A
Copper Nitrite	A	A	A	-	A	A
Copper Sulfate	A	A	A	-	A	B

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	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Copper Sulfide	A	A	A	-	A	A
Corn Oil	A	C	A	-	A	A
Cottonseed Oil	A	C	A	-	A	A
Creosote (Coal Tar)	A	D	B	-	A	D
Creosote (Wood)	A	D	A	-	A	D
Creosols	C	D	A	-	A	C
Cresylic Acid	C	D	A	-	A	D
Crude Oil	A	D	A	-	A	D
Cumene	C	D	A	-	A	D
Cupric Carbonate	B	A	A	-	A	A
Cupric Chloride	A	A	A	-	A	A
Cupric Nitrate	A	A	A	-	A	A
Cupric Nitrite	A	A	A	-	A	A
Cupric Sulfate	A	A	A	-	A	A
Cyclohexane	B	D	A	D	A	D
Cyclohexanone	D	D	C	D	A	D
Cyclohexanol	B	D	B	-	A	D
Cyclopentane	C	D	A	-	A	D
P-Cymene	C	D	A	-	A	D
DDT in Kerosene	A	D	A	-	A	D
Decaline	D	D	A	-	A	D
Decane	B	D	A	-	-	D
Detergent Solutions	A	A	A	-	A	A
Diacetone Alcohol	D	B	D	-	A	A
Dibenzyl Ether	D	D	C	-	A	B
Dibenzylsebacate	D	B	B	-	A	B
Dibromobenzene	D	D	A	-	A	D
Dibutylamine	D	D	D	C	A	D
Dibutyl Ether	D	B	C	-	A	D
Dibutyl Phthalate	D	A	D	-	A	B
Dibutyl Sebacate	D	B	B	-	A	B
Dicalcium Phosphate	A	A	A	-	A	A
Dichloroacetic Acid	D	C	C	-	A	C
P-Dichlorobenzene	D	D	A	-	A	D
Dichlorobutane	D	D	A	-	A	D
Dichloroisopropyl Ether	D	C	C	-	-	C
Dichlorodifluoromethane (Freon 12)	A	D	A	-	A	D
Dichloroethane	D	D	A	-	A	C
Dichloroethylene	D	D	A	-	A	D
Dichloroethyl Ether	D	D	C	-	A	D
Dichlorohexane	D	D	A	-	A	D
Dichloromethane	D	D	A	-	A	D
Dichloropentane	D	D	A	-	A	D
Dieldrin in Xylene	D	D	A	-	-	D
Dieldrin in Xylene & Water Spray	B	D	A	-	-	D
Diesel Oil	A	D	A	-	A	D
Diethanolamine	B	A	D	-	A	A
Diethylamine	C	B	D	-	A	B

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Diethyl Benzene	D	D	A	-	A	D
Diethyl Ether	B	D	D	-	-	D
Diethylene Dioxide	D	B	D	-	A	B
Diethyl Oxalate	D	A	C	-	A	C
Diethyl Phthalate	D	C	C	-	A	A
Diethyl Sebacate	D	C	B	-	A	A
Diethyl Sulfate	D	A	A	-	A	B
Diethyl Triamine	B	B	C	-	A	A
Dihydroxyethyl Ether	A	B	A	-	A	A
Diisobutylene	A	D	A	-	A	D
Diisobutyl Ketone	D	A	D	-	A	B
Diiaodecyl Adipate	D	A	C	-	A	A
Diisodecyl Phthalate	D	A	C	-	A	A
Diisooctyl Adipate	D	A	C	-	A	A
Diisooctyl Phthalate	D	B	B	-	A	B
Diisopropanol Amine	B	A	C	-	A	A
Diisopropyl Benzene	C	D	A	-	A	D
Diisopropyl Ether	B	D	B	-	A	D
Diisopropyl Ketone	D	A	D	-	A	D
Dilauryl Ether	C	D	C	-	A	D
Dimethyl Benzene	D	D	A	-	A	D
Dimethylaniline	D	C	D	-	A	D
Dimethylformamide (DMF)	D	C	D	-	A	C
Dimethyl Ketone (Acetone)	D	A	D	-	A	A
Dimethyl Phthalate	D	B	C	-	A	A
Dimethyl Sulfate	D	D	D	-	A	B
Dimethyl Sulfide	D	D	C	-	A	C
Dinitrobenzene	D	C	A	-	A	C
Dinitrotoluene	D	D	B	-	A	D
Diocetyl Adipate (DOA)	D	B	C	-	A	A
Diocetyl Phthalate (DOP)	D	B	B	-	A	B
Diocetyl Sebacate (DOS)	D	B	B	-	A	B
Dioxane	D	B	D	-	A	B
Dioxolane	D	B	C	-	A	C
Dipentene (Limonene)	C	D	A	-	A	D
Diphenyl (Biphenyl)	D	D	A	-	-	D
Dipropyl Ketone	D	B	D	-	A	B
Disodium Phosphate	A	A	A	-	A	A
Divinyl Benzene	D	D	A	-	A	D
D.M.P. (Dimethyl Phenols)	D	D	D	-	A	D
Dodecyl Benzene	D	D	A	-	A	D
Diphenyl Oxide (Phenylether)	D	D	A	-	-	D
Dipropylene Glycol	A	A	A	-	A	A
Dodecyl Toluene	D	D	A	-	A	D
Dowdume W 40, 100%	D	C	C	-	-	D
Dow-Per (Perchloroethylene)	C	D	A	-	A	D
Dowtherm Oil, A & E	D	D	A	-	A	D
Dowtherm S.R.I.	A	A	A	-	A	A

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# Chemical Resistance Chart

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	Buna/Nitrile	EPDM	FKM	Silicone	APTEE*	Butyl**
Dry Cleaning Fluids	C	D	A	-	-	D
Epichlorohydrin	D	B	D	-	A	C
Ethanol (Ethyl Alcohol)	A	A	C	B	A	A
Ethers	C	D	D	D	A	C
Ethyl Acetate	D	A	D	D	A	B
Ethyl Acetaoacetate	D	B	D	-	A	B
Ethyl Acrylate	D	D	D	-	A	C
Ethyl Benzene	C	D	A	-	A	D
Ethyl Benzoate	B	B	C	-	-	B
Ethyl Butyl Alcohol	A	A	B	-	A	A
Athyl Butyl Ketone	D	B	D	-	A	B
Ethyl Cellulose	B	B	D	-	A	B
Ethyl Chloride	D	A	B	D	A	A
Ethyl Dichloride	D	D	B	-	A	D
Ethylene	A	D	A	-	-	D
Ethylene Bromide	D	D	A	-	A	D
Ethylene Chloride	D	D	A	-	A	D
Ethylene Dibromide	D	D	B	-	A	D
Ethylene Dichloride	D	D	B	D	A	D
Ethylene Glycol	A	A	A	A	A	A
Ethylene Oxide	D	C	D	D	A	C
Ethylene Trichloride (Trichloroethylene)	C	D	A	-	A	D
Ethyl Ether	C	D	D	-	A	D
Ethyl Formate	D	C	D	-	A	B
Ethyl Hexanol	A	A	B	-	A	A
Ethyl Methyl Ketone	D	B	D	-	A	B
Ethyl Ozalate	D	B	C	-	A	A
Ethyl Phthalate	D	B	C	-	A	A
Ethyl Propyl Ether	D	D	C	-	-	D
Ethyl Propyl Ketone	D	B	D	-	A	B
Ethyl Silicate	A	A	A	-	A	A
Ethyl Sulfate	D	B	D	-	A	B
EX TRI (Trichlorethylene)	C	D	A	-	A	D
Fatty Acids	B	C	A	C	A	D
Ferric Bromide	A	A	A	-	A	A
Ferric Chloride	A	A	A	B	A	A
Ferric Nitrate	A	A	A	-	A	A
Ferric Sulfate	A	A	A	-	A	A
Ferrous Acetate	D	B	D	-	A	A
Ferrous Ammonium Sulfate	A	A	A	-	-	A
Ferrous Chloride	A	A	A	-	A	A
Ferrous Hydroxide	B	A	C	-	A	A
Ferrous Sulfate	A	A	A	-	A	A
Fish Oil	A	D	A	-	A	A
Fluoroboric Acid	A	A	C	A	A	A
Fluorine	D	D	D	-	B	D
Fluosilic Acid	B	B	A	-	A	A
Formaldehyde (Formalin)	A	A	A	B	A	A

	Buna/Nitrile	EPDM	FKM	Silicone	PTEE*	Butyl**
Formamide	A	A	D	-	A	A
Formic Acid	B	A	D	C	A	A
Freon 11	A	D	A	-	-	D
Freon 12	B	C	B	-	-	D
Freon 13	A	A	A	-	-	A
Freon 21	D	D	D	-	-	D
Freon 22	D	A	D	-	A	A
Freon 31	D	A	D	-	-	A
Freon 32	A	A	C	-	-	A
Freon 112	B	D	A	-	-	D
Freon 113	A	D	B	-	-	D
Freon 114	A	A	B	-	-	A
Freon 115	A	A	B	-	-	A
Freon 142b	A	A	D	-	-	A
Freon 152a	A	A	D	-	-	A
Freon 218	A	A	A	-	-	A
Freon C316	A	A	A	-	-	A
Freon C318	A	A	A	-	-	A
Freon 13B1	A	A	A	-	-	A
Freon 114B2	B	D	B	-	-	D
Freon 502	B	A	B	-	-	A
Freon TF	A	A	A	-	-	A
Freon T-WD 602	A	B	A	-	-	A
Freon TMC	B	B	A	-	-	B
Freon T-P35	A	A	A	-	-	A
Freon TA	A	A	C	-	-	A
Freon TC	A	B	A	-	-	A
Freon MF	A	D	A	-	-	D
Freon BF	B	D	A	-	-	D
Fuel Oil	A	D	A	-	A	D
Fuel, ASTM A	A	D	A	-	A	D
Fuel, ASTM B	A	D	A	-	A	D
Fuel, ASTM C	B	D	A	-	A	D
Fumaric Acid	A	D	A	-	A	D
Furan	D	C	D	-	A	C
Furfural	D	C	D	-	A	A
Furfuryl Alcohol	D	C	D	-	A	C
Gallic Acid	B	B	B	-	A	B
Gasoline, Reg	A	D	A	-	A	D
Gasoline, Hi-Test	A	D	A	D	A	D
Gasoline, Lead Free	A	D	A	D	A	D
Gelatin	A	A	A	-	A	A
Gluconic Acid	C	C	A	-	A	C
Glucose	A	A	A	A	A	A
Glue	A	A	C	A	A	B
Glycerine (Glycerol)	A	A	A	A	A	A
Glycois	A	A	A	-	A	A
Grease	A	D	A	-	A	D

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	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Green Sulfate Liquor	-	A	-	-	A	A
Halowax Oil	D	D	A	-	A	D
Heptachlor in Petroleum Solvents	B	D	A	-	A	D
Heptachlor in Petroleum Solvents, Water Spray	B	D	A	-	-	D
Heptanal (Heptaldehyde)	D	B	D	-	A	D
Heptane	A	D	A	-	A	D
Heptane Carboxylic Acid	C	C	A	-	A	C
Hexaldehyde	D	B	D	-	A	B
Hexane	A	D	A	-	A	D
Hexene	B	D	A	-	A	D
Hexanol (Hexyl Alcohol)	A	A	A	-	A	A
Hexylene	A	C	A	-	A	D
Hexylene Glycol	A	A	A	-	A	A
Hexyl Methyl Ketone	D	B	D	-	A	B
Hi-Tri (Trichloroethylene)	C	D	A	-	A	D
Hydraulic Fluid (Petroleum)	A	D	A	C	A	D
Hydraulic Fluid (Phosphate Ester Base)	D	A	D	-	A	A
Hydraulic Fluid (Poly Alkylene Glycol Base)	A	A	A	-	-	A
Hydrobromic Acid	C	A	A	-	A	A
Hydrobromic Acid, 5%	D	A	A	-	A	B
Hydrobromic Acid, 15%	D	A	A	-	A	B
Hydrobromic Acid, 37%	-	A	A	-	A	-
Hydrocyanic Acid	B	C	A	-	A	C
Hydrofluoric Acid	D	C	A	D	A	C
Hydrofluosilic Acid	B	A	A	-	A	A
Hydrogen Gas	-	-	-	-	-	-
Hydrogen Peroxide, 3%	C	A	-	-	A	C
Hydrogen Peroxide, 10%	D	A	-	-	A	C
Hydrogen Peroxide, 30%	D	C	-	-	A	D
Hydrogen Peroxide, 90%	D	C	B	C	A	D
Hydrogen Sulfide	-	-	-	-	-	-
Hydroquinone	D	B	D	-	A	B
Hypochlorous Acid	D	B	A	D	-	B
Ink Oil (Linseed Oil Base)	B	B	A	-	A	B
Insulating Oil	A	D	A	-	A	D
Iodine	D	D	C	-	A	D
Iron Acetate	D	B	D	-	A	A
Iron Hydroxide	B	B	C	-	A	A
Iron Salts	A	A	A	-	A	A
Iron Sulfate	A	A	A	-	A	A
Iron Sulfide	A	A	A	-	A	A
Isomyl Acetate	D	B	D	-	A	A
Isomyl Alcohol	A	A	A	-	A	A
Isoamyl Bromide	D	D	B	-	A	D
Isoamyl Butyrate	D	C	D	-	A	C
Isoamyl Chloride	D	D	B	-	A	C
Isoamyl Ether	D	D	D	-	A	D
Isoamyl Phthalate	D	B	C	-	A	A

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Isobutanol (Isobutyl Alcohol)	B	A	B	-	A	A
Isobutyl Acetate	D	B	D	-	A	A
Isobutyl Aldehyde	D	B	D	-	A	B
Isobutyl Amine	D	B	D	-	A	B
Isobutyl Bromide	D	D	B	-	A	D
Isobutyl Carbinol	A	A	B	-	A	A
Isobutyl Chloride	D	D	B	-	A	D
Isobutylene	A	D	A	-	A	D
Isobutyl Ether	D	D	D	-	A	D
Isocyanates	D	B	C	-	A	B
Isocane	A	D	A	-	A	D
Isopentane	A	D	A	-	A	D
Isopropyl Acetate	D	B	D	-	A	A
Isopropyl Alcohol (iso-propanol)	B	A	B	-	A	A
Isopropyl Amine	C	B	D	-	A	B
Isopropyl Benzene	D	D	A	-	A	D
Isopropyl Chloride	D	D	B	-	A	D
Isopropyl Ether	C	D	D	-	A	D
Isopropyl Toluene	D	D	A	-	A	D
Jet Fuels (JP1-JP6)	A	D	A	-	A	D
Kerosene	A	D	A	D	A	D
Ketones	D	A	D	-	A	B
Lactic Acid	C	C	A	A	A	C
Lacquers	D	D	D	-	A	C
Lacquer Solvents	D	D	D	D	A	C
Lard	A	C	A	B	A	D
Lauryl Alcohol	A	A	B	-	A	A
Lead Acetate	C	B	C	D	A	A
Lead Nitrate	A	A	A	-	A	A
Lead Sulfamate	B	A	A	-	-	A
Lead Sulfate	A	A	A	-	A	A
Ligroin	A	D	A	-	A	D
Lime Water	C	A	A	-	-	A
Linseed Oil	A	A	A	-	A	A
Lindol (Tricresyl Phosphate)	D	A	A	-	-	A
Liquid Soap	A	A	A	-	A	A
Liquid Petroleum Gas	A	D	A	-	A	D
Lubricating Oils	A	D	A	-	A	D
Lye (Sodium Hydroxide)	B	A	D	-	-	A
Magnesium Acetate	D	B	D	-	A	A
Magnesium Carbonate	A	A	A	-	A	A
Magnesium Chloride	A	A	A	A	A	A
Magnesium Hydrate	B	A	B	-	A	A
Magnesium Hydroxide	B	A	A	-	A	A
Magnesium Nitrate	A	A	A	-	A	A
Magnesium Sulfate	A	A	A	A	A	A
Malathion 50 in Aromatic Solvents	C	D	A	-	A	D
Malathion 50 in Aromatic Solvents, Water Spray	C	D	A	-	A	D

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# Chemical Resistance Chart

A = Good Resistance | B = Fair Resistance | C = Depends on Conditions | D = Not Recommended

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Maleic Acid	D	C	A	-	A	C
Maleic Anhydride	D	C	A	-	A	C
Malic Acid	B	D	A	B	A	D
Manganese Sulfate	A	A	A	-	A	A
Manganese Sulfide	A	B	A	-	A	A
Manganese Sulfite	A	B	A	-	A	A
Mercuric Chloride	B	A	A	-	A	A
Mercury	A	A	A	-	A	A
Methane	A	D	A	-	A	D
Methyl Acetate	D	B	D	-	A	B
Methyl Acrylate	D	B	D	-	A	B
Methacrylic Acid	D	B	D	-	-	B
Methyl Alcohol (Methanol)	A	A	C	A	A	A
Methyl Benzene (Toluene)	D	D	A	-	A	D
Methyl Bromide	D	D	B	-	A	D
Methyl Butyl Ketone	D	B	D	-	A	B
Methyl Cellosolve	C	B	D	-	A	B
Methyl Chloride	C	C	A	D	A	C
Methyl Cyclohexane	D	D	B	-	A	D
Methylene Bromide	D	D	B	-	A	D
Methylene Chloride	D	D	B	-	A	D
Methyl Ethyl Ketone (MEK)	D	A	D	D	A	B
Methyl Formate	D	B	C	-	A	B
Methyl Hexanol	A	A	B	-	A	A
Methyl Hexyl Ketone	D	B	D	-	A	B
Methyl Isobutyl Carbinol	B	A	B	-	A	A
Methyl Isobutyl Ketone (MIBK)	D	A	D	-	A	B
Methyl Isopropyl Ketone	D	C	D	-	A	B
Methyl Propyl Ether	D	D	D	-	A	D
Methyl Propyl Ketone	D	B	D	-	A	B
Methyl Methacrylate	D	D	D	-	A	D
Methyl Salicylate	D	B	C	-	A	B
Methyl tert-Butyl Ether (MTBE)	D	D	D	-	D	D
Mineral Oil	A	D	A	-	A	D
Mineral Spirits	A	D	A	-	A	D
Monochlorobenzene	D	D	A	-	A	D
Monochlorodifluoromethane (Freon 22)	D	A	D	-	A	A
Monomethylether	A	A	C	-	-	A
Monovinyl Acetate	D	C	A	-	-	B
Motor Oil	A	D	A	-	A	D
Muriatic Acid	-	A	A	-	A	-
Naphtha	A	D	A	D	A	D
Napthalene	D	D	A	-	A	D
Napthenic Acid	C	D	A	-	A	D
Neatsfoot Oil	A	B	A	-	A	B
Neu-Tri (Trichloroethylene)	C	D	A	-	A	D
Nickel Acetate	D	B	D	-	A	A
Nickel Chloride	A	A	A	A	A	A

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Nickel Nitrate	A	A	A	-	A	A
Nickel Plating Solution	B	B	A	-	A	B
Nickel Sulfate	A	A	A	-	A	A
Niter Cake	A	A	A	-	A	A
Nitric Acid, 10%	D	C	C	-	A	C
Nitric Acid, 20%	D	C	A	-	A	B
Nitric Acid, 30%	D	C	A	-	A	B
Nitric Acid, 30-70%	D	D	C	-	A	C
Nitric Acid, Red Fuming	D	D	D	-	A	D
Nitrobenzene	D	D	B	D	A	D
Nitrogen Gas	A	A	A	-	A	A
Nitrogen Tetraoxide	D	D	D	-	A	D
Nitromethane	D	B	D	-	A	B
Nitropropane	D	B	D	-	A	A
Nitrous Oxide	A	A	A	-	A	A
Octadecanoic Acid	A	C	C	-	A	B
Octane	A	D	A	-	A	D
Octanol (Octyl Alcohol)	B	B	A	-	A	B
Octyl Acetate	D	B	D	-	A	A
Octyl Carbinol	A	A	B	-	A	A
Octylene Glycol	A	A	A	-	A	A
Oil, Petroleum	A	D	A	-	A	D
Oil, ASTM #1	A	D	A	-	A	D
Oil, ASTM #2	A	D	A	-	A	D
Oil, ASTM #3	A	D	A	-	A	D
Oleic Acid	B	B	C	D	A	B
Oleum (Fuming Sulfuric Acid)	D	D	D	-	A	D
Olive Oil (Non FDA)	A	B	A	-	A	B
Orthodichlorobenzene	D	D	A	-	A	D
Oxalic Acid (Cold)	B	A	A	B	A	A
Oxygen, Cold	C	A	A	-	A	A
Oxygen, HotB	A	A	-	A	-	C
Ozone	D	A	A	-	A	B
Paint Thinner (Duco)	D	D	C	-	A	D
Palmitic Acid (Hexadecanoic Acid)	A	B	A	D	A	B
Palm Oil	A	B	A	-	A	A
Papermaker's Alum	A	A	A	-	A	A
Paradichlorobenzene	D	D	A	-	-	D
Paraffin	A	D	A	-	A	D
Paraformaldehyde	B	B	C	-	A	B
Peanut Oil	A	D	A	-	A	C
Pentane	A	D	A	-	A	D
Perchloroethylene	C	D	A	-	A	D
Perchloric Acid	D	B	A	D	A	B
Petrolatum	A	D	A	-	-	D
Petroleum, Crude	A	D	A	-	A	D
Petroleum Ether (Naphtha)	A	D	A	-	A	D
Petroleum Oils	A	D	A	-	A	D

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# Chemical Resistance Chart

A = Good Resistance | B = Fair Resistance | C = Depends on Conditions | D = Not Recommended

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Phenol 10%	D	C	A	-	A	B
Phenol Sulfonic Acid	D	C	A	-	A	C
Phenyl Chloride	D	D	A	-	A	D
Phenyhydrazine	D	C	A	-	-	B
Phorone	D	B	C	-	A	A
Phosphate Esters	D	A	C	-	-	A
Phosphoric Acid, 10%	A	A	A	-	A	A
Phosphoric Acid, 10-85%	C	A	A	-	A	A
Phosphorous Trichloride	D	A	A	-	-	A
Pickling Solution	C	C	B	-	A	C
Picric Acid, Molten	C	C	C	-	A	C
Picric Acid, Water Soln.	B	B	C	-	A	A
Pinene	A	D	A	-	A	D
Pine Oil	C	D	B	-	A	D
Piperdine	D	D	D	-	A	D
Pitch	B	D	C	-	A	D
Plating Solution, Chrome	B	A	B	-	A	A
Plating Solution, Others	B	A	B	D	-	A
Polyvinyl Acetate Emulsion (PVA)	C	A	C	-	A	A
Polyethylene Gycol	A	A	A	-	A	A
Polypropylene Glycol	A	A	A	-	A	A
Potassium Bicarbonate	A	A	A	-	A	A
Potassium Bisulfate	A	A	A	-	A	A
Potassium Bisulfite	A	A	A	-	A	A
Potassium Cabonate	A	A	A	-	A	A
Potassium Chloride	A	A	A	-	A	A
Potassium Chromate	D	B	A	-	A	A
Potassium Cyanide	A	A	A	-	A	A
Potassium Dichromate	D	B	A	-	A	A
Potassium Hydrate	B	A	C	-	A	A
Potassium Hydroxide	C	A	C	C	A	A
Potassium Nitrate	A	A	A	-	A	A
Potassium Permanganate	D	A	A	-	A	A
Potassium Silicate	A	A	A	-	A	A
Potassium Sulfate	A	A	A	-	A	A
Potassium Sulfide	A	A	A	-	A	A
Potassium Sulfite	A	A	A	-	A	A
Producer Gas	A	D	A	-	-	D
Propanediol	A	A	A	-	A	A
Propyl Acetate	D	B	D	-	A	B
Propyl Alcohol (Propanol)	A	A	A	-	A	A
Propyl Aldehyde	D	B	D	-	A	B
Propyl Chloride	D	C	B	-	A	C
Propylene Dichloride	D	D	B	-	A	D
Propylene Glycol	A	A	A	-	A	A
Pydraul Hydraulic Fluids	D	B	C	-	A	B
Pyranol	C	D	A	-	-	D
Pyridine	D	B	D	D	A	B

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Pyroigneous Acid	C	B	A	-	-	B
Pyrrrole	D	C	C	-	-	B
Rape Seed Oil	B	B	A	-	A	A
Red Oil (Crude Oleic Acid)	B	B	B	-	A	B
Richfield A Weed Killer, 100%	D	D	C	-	A	D
Richfield B Wedd Killer, 33%	B	D	C	-	A	B
Rosin Oil	A	D	A	-	-	D
Rotenone and Water	A	A	A	-	-	A
Rum	FDA TUBE REQUIRED					
Sal Ammoniac (Ammonium Chloride)	A	A	A	-	-	
Salicylic Acid	D	A	A	-	A	
Salt Water (Sea Water)	A	A	A	A	A	
Sewage	A	C	A	-	A	
Silicate of Soda (Sodium Silicate)	A	A	A	-	A	
Silicate Esters	B	D	A	-	-	
Silicone Greases	A	A	A	-	A	
Silicone Oils	A	A	A	-	A	
Silver Nitrate	A	A	A	A	A	
Skelly Solvent	A	D	A	-	-	
Skydrol Hydraulic Fluids	D	A	D	-	A	
Soap Solutions	A	A	A	B	A	
Soda Ash (Sodium Carbonate)	A	A	A	-	A	
Soda, Caustic (Sodium Hydroxide)	B	A	D	-	A	
Soda, Lime	B	A	C	-	A	
Soda Niter (Sodium Nitrate)	A	A	A	-	A	
Sodium Acetate	D	B	D	-	A	
Sodium Aluminate	A	A	A	-	A	
Sodium Bicarbonate	A	A	A	A	A	
Sodium Bisulfate	A	A	A	-	A	
Sodium Bisulfite	A	A	A	A	A	
Sodium Borate	A	A	A	A	A	
Sodium Carbonate	A	A	A	A	A	
Sodium Chloride	A	A	A	B	A	
Sodium Chromate	D	B	C	-	A	
Sodium Cyanide	A	A	A	-	A	
Sodium Dichromate	D	B	C	-	A	
Sodium Fluoride	A	A	A	-	A	
Sodium Hydroxide	C	A	C	A	A	
Sodium Hypochlorite	D	A	A	B	A	
Sodium Metaphosphate	A	A	A	-	A	
Sodium Nitrate	C	A	A	D	A	
Sodium Nitrite	A	A	A	-	A	
Sodium Perborate	C	A	A	-	A	
Sodium Peroxide	C	A	A	-	A	
Sodium Phosphate	B	A	A	-	A	
Sodium Silicate	A	A	A	A	A	
Sodium Sulfate	A	A	A	-	A	
Sodium Sulfide	A	A	A	A	A	

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# Chemical Resistance Chart

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	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
Sodium Sulfite	A	A	A	A	A	A
Sodium Thiosulfate	A	A	A	-	A	A
Soybean Oil	A	A	A	-	A	A
Stannic Chloride	A	B	A	-	A	B
Stannic Sulfide	A	A	A	-	A	A
Stannous Chloride	A	A	A	-	A	A
Stannous Sulfide	A	A	A	-	A	A
Stearic Acid	B	B	A	B	A	B
Stoddards Solvent	A	D	A	D	A	D
Styrene	D	D	A	-	A	D
Sugar Sols. (Sucrose) Non FDA	A	A	A	-	A	C
Sulfamic Acid	B	A	C	-	A	A
Sulfite Liquors	B	B	A	-	A	A
Sulfonic Acid	D	D	D	-	A	D
Sulfur (Molten)	B	A	A	-	A	A
Sulfur Chloride	C	D	A	-	A	D
Sulfur Dioxide	C	C	A	-	A	C
Sulfur Hexafluoride	A	A	A	-	A	A
Sulfur Trioxide	C	C	A	-	A	C
Sulfuric Acid, 25%	B	-	A	D	A	B
Sulfuric Acid, 25-50%	D	-	A	D	A	A
Sulfuric Acid, Fuming	D	D	A	D	A	D
Sulfurous Acid	C	C	A	D	A	C
Tall Oil	A	D	A	-	A	D
Tallow	A	D	A	-	A	D
Tannic Acid	C	A	A	B	A	A
Tar	C	D	B	-	A	D
Tartaric Acid	C	B	A	A	A	B
Terpineol	D	C	A	-	A	C
Tertiary Butyl Alcohol	A	A	A	-	A	A
Tetrachlorobenzene	D	D	B	-	A	D
Tetrachloroethane	D	D	A	-	A	D
Tetrachloroethylene	D	D	A	-	A	D
Tetraethylene Glycol	A	A	A	-	A	A
Tetrachloromethane	C	D	A	-	A	D
Tetrachloronaphthalene	D	D	B	-	A	D
Tetraethyl Lead	B	D	A	-	A	D
Tetrahydrofuran (THF)	D	D	D	-	A	D
Thionyl Chloride	D	D	B	-	A	D
Tin Chloride	A	A	A	B	A	A
Tin Tetrachloride	A	A	A	-	A	A
Titanium Tetrachloride	B	C	A	-	A	D
Toluene (Toluol)	C	D	A	D	A	D
Toluene Diisocyanate (TDI)	C	A	B	-	A	A
Toxaphene	B	D	A	-	-	D
Transformer Oils (Petroleum Base)	A	D	A	-	A	D
Transformer Oils	D	D	A	-	A	D

	Buna/Nitrile	EPDM	FKM	Silicone	PTFE*	Butyl**
(Chlorinated Phenyl Base Askerels)						
Transmission Fluids - A	B	D	A	-	A	D
Transmission Fluids - B	C	D	A	-	-	D
Tricetin	B	A	D	-	-	A
Tributyl Phosphate	D	B	D	-	A	B
Trichlorobenzene	D	D	B	-	A	D
Trichloroethane	D	D	A	-	A	D
Trichloroethylene	D	D	A	D	A	D
Trichloropropane	D	D	A	-	A	D
Tricresyl Phosphate (TCP)	D	B	B	-	A	A
Triethylene Glycol	A	A	A	-	A	A
Trinitrotoluene (TNT)	D	D	B	-	-	D
Triphenyl Phosphate	D	B	C	-	A	A
Trisodium Phosphate	A	A	A	-	A	A
Tung Oil	A	D	A	-	A	C
Turbine Oil	B	D	A	-	-	D
Turpentine	B	D	A	D	A	D
2, 4D with 10% Fuel Oil	A	D	A	-	-	D
Ucon Hydrolube Oils	A	A	A	-	A	A
Undecanol	A	A	B	-	A	A
Unsymmetrical Dimethyl-Hydrazine (UDMH)	D	A	D	-	-	A
Uran	B	B	C	-	-	B
Varnish	B	D	A	-	A	D
Vegetable Oils	A	A	A	-	A	A
Versilube	A	A	A	-	A	A
Vinegar	C	A	A	-	A	A
Vinyl Acetate	D	B	A	-	A	A
Vinyl Benzene	D	D	A	-	A	D
Vinyl Chloride (Monomer)	D	D	A	-	A	D
Vinyl Ether	D	C	D	-	-	D
Vinyl Toluene	D	D	A	-	A	D
Vinyl Trichloride	D	D	A	-	A	D
V.M. & P. Naptha	A	D	A	-	A	D
Water, Fresh (Non FDA)	A	A	A	B	A	A
Water, Salt	B	A	A	A	A	A
Whiskey, Wines	FDA TUBE REQUIRED					
White Liquor	A	C	A	-	-	B
White Oil	A	D	A	-	A	D
Wood Alcohol (Methanol)	A	A	D	-	A	A
Xylene (Xy101)	C	D	A	D	A	D
Xylidine	D	D	C	-	A	D
Zeolites	C	A	A	-	-	C
Zinc Acetate	C	B	D	-	A	A
Zinc Carbonate	A	A	A	-	A	A
Zinc Chloride	C	A	A	B	A	A
Zinc Chromate	A	A	A	-	A	A
Zinc Sulfate	A	A	A	-	A	A

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