

CARE OF HOSES

CHEMICAL RESISTANCE CHART

A – Recommended
B – Minor to Moderate Effect
C – Moderate to Severe Effect
D – Not Recommended
 * Insufficient Data

CHEMICAL	Natural Rubber, Isoprene (NR, IR)	Styrene, Butadiene (SBR, BR)	Butyl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI, VMQ)	Viton, Fluoroelastomer (FKM)	Viton B Fluoroelastomer (FKM)
Acetaldehyde	B	C	A	A	D	C	C	B	D	C
Acetamide	D	D	A	A	A	B	B	B	B	A
Acetic Acid, Glacial	B	B	B	A	C	D	C	B	C	C
Acetic Acid, 30%	B	B	B	A	B	A	B	A	B	A
Acetic Anhydride	B	B	B	B	C	B	A	C	D	D
Acetone	C	C	A	A	D	C	B	C	D	D
Acetophenone	D	D	A	A	D	D	D	D	D	D
Acetyl Chloride	D	D	D	D	D	D	D	C	A	A
Acetylene	B	B	A	A	A	B	B	B	A	A
Acrylonitrile	D	D	D	D	D	D	C	D	C	D
Adipic Acid	A	A	A	A	A	A	*		A	A
Alkazene (Dibromoethylbenzene)	D	D	D	D	D	D	D	D	B	B
Alum-NH3-Cr-K (Aqueous)	A	A	A	A	A	A	A	A	D	*
Aluminum Acetate (Aqueous)	A	B	A	A	B	B	A	D	D	D
Aluminum Chloride (Aqueous)	A	A	A	A	A	A	A	B	A	A
Aluminum Fluoride (Aqueous)	B	A	A	A	A	A	A	B	A	A
Aluminum Nitrate (Aqueous)	A	A	A	A	A	A	A	B	A	A
Aluminum Phosphate (Aqueous)	A	A	A	A	A	A	A	A	A	A
Aluminum Sulfate (Aqueous)	A	A	A	A	A	A	A	A	A	A
Ammonia Anhydrous	D	D	A	A	B	A	B	C	D	D
Ammonia Gas (cold)	A	A	A	A	A	A	A	A	D	D
Ammonia Gas (hot)	D	D	B	B	D	B	B	A	D	D
Ammonium Carbonate (Aqueous)	A	A	A	*	D	A	*	*	A	A
Ammonium Chloride (Aqueous)	A	A	A	A	A	A	A		A	A
Ammonium Hydroxide (conc.)	D	D	A	A	D	A	A	A	B	A
Ammonium Nitrate (Aqueous)	C	B	A	A	A	A	A	*	A	A
Ammonium Nitrite (Aqueous)	A	A	A	A	A	A	A	B	A	A
Ammonium Persulfate (Aqueous)	A	D	A	A	D	A	A	*	A	A
Ammonium Phosphate (Aqueous)	A	A	A	A	A	A	A	A	A	A
Ammonium Sulfate (Aqueous)	A	A	A	A	A	A	A	*	B	A
Amyl Acetate (Banana Oil)	D	D	C	C	D	D	D	D	D	D

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Amyl Alcohol	B	B	A	A	B	B	A	D	B	A
Amyl Borate	D	D	D	D	A	A	A	*	A	A
Amyl Chloronaphthalene	D	D	D	D	D	D	D	D	A	A
Amyl Naphthalene	D	D	D	D	D	D	D	D	A	A
Aniline	D	D	A	A	D	D	C	D	C	A
Aniline Dyes	B	B	B	A	D	B	B	C	B	A
Aniline Hydrochloride	B	D	B	B	B	D	D	D	B	A
Animal Fats	D	D	B	B	A	B	B	B	A	A
Ansul Ether (Anesthetics)	D	D	C	C	C	D	D	D	D	D
Aqua Regia	D	D	D	C	D	D	A	D	B	A
Aroclor, 1248	D	D	C	C	C	D	A	B	A	A
Aroclor, 1254	D	D	D	C	D	D	D	C	A	A
Aroclor, 1260	A	A	A	A	A	A	A	B	A	A
Arsenic Acid	B	A	A	A	A	A	A	A	A	A
Arsenic Trichloride (Aqueous)	D	D	C	C	A	A	*	*	D	D
Askarel	D	D	D	D	B	D	D	D	A	A
Asphalt	D	D	D	D	B	B	B	D	A	A
Banana Oil (Amyl Acetate)	D	D	C	C	D	D	D	D	D	D
Barium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A	A
Barium Hydroxide (Aqueous)	A	A	A	A	A	A	A	A	A	A
Barium Sulfate (Aqueous)	A	A	A	A	A	A	A	A	A	A
Barium Sulfide (Aqueous)	A	B	A	A	A	A	A	A	A	A
Beer	A	A	A	A	A	A	A	A	A	A
Beet Sugar Liquors	A	A	A	A	A	B	A	A	A	A
Benzaldehyde	D	D	A	A	D	D	A	B	D	D
Benzene	D	D	D	D	D	D	D	D	A	A
BenzeneSulfonicAcid(Nitrobenzine)(PetEther)	D	D	D	C	D	B	A	D	A	A
Benzine (Ligroin)	D	D	D	D	A	B	C	D	A	A
Benzoic Acid	D	D	D	C	C	D	D	C	A	A
Benzoyl Chloride	D	D	D	D	D	D	D	*	B	A
Benzyl Alcohol	D	D	A	A	D	B	B	B	A	A

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Benzyl Benzoate	D	D	B	B	D	D	D	*	A	A
Benzyl Chloride	D	D	D	D	D	D	D	D	A	A
Biphenyl(Diphenyl)(Phenylbenzene)	D	D	D	D	D	D	D	D	A	A
Blast Furnace Gas	D	D	D	D	D	D	D	A	A	A
Bleach Solutions	D	D	A	A	D	D	A	B	A	A
Borax	B	B	A	A	B	A	A	B	A	A
Bordeaux Mixture	B	B	A	A	B	B	A	B	A	A
Brine	A	A	A	A	A	A	A	A	A	A
Bromine-Anydrous	D	D	D	D	D	D	D	D	A	A
Bromine Trifluoride	D	D	D	D	D	D	D	D	D	D
Bromine Water	D	D	C	B	D	D	A	D	A	A
Bromobenzene	D	D	D	D	D	D	D	D	A	A
Bunker Oil	D	D	D	D	A	D	D	B	A	A
Butadiene	D	D	D	C	D	D	C	D	A	A
Butter (Animal Fat)	D	D	B	A	A	B	B	B	A	A
Butyl Acetate	D	D	C	C	D	D	D	D	D	D
Butyl Acetate Ricinoleate	D	D	A	A	C	B	B	*	A	A
Butyl Acrylate	D	D	D	D	D	D	D	*	D	D
Butyl Alcohol	A	A	B	B	A	A	A	B	A	A
Butyl Amine	D	D	C	B	C	D	D	D	D	D
Butyl Benzoate	C	B	B	B	D	D	D	*	A	A
Butyl Carbitol	D	D	A	A	D	C	B	D	C	B
Butyl Cellosolve	D	D	A	A	C	C	B	*	D	D
Butyl Oleate	D	D	B	B	D	D	D	*	A	A
Butyl Stearate	D	D	C	C	B	D	D	*	A	A
Butylene	D	D	D	D	B	C	D	D	A	A
Butyraldehyde	D	D	B	B	D	C	D	D	D	D
Calcium Acetate (Aqueous)	A	D	A	A	B	B	B	D	D	D
Calcium Bisulfite (Aqueous)	D	D	D	D	D	A	A	A	A	A
Calcium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A	A
Calcium Hydroxide (Aqueous)	A	A	A	A	A	A	A	A	A	A

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Calcium Hypochlorite (Aqueous)	C	C	A	A	B	C	A	B	A	A
Calcium Nitrate (Aqueous)	A	A	A	A	A	A	A	B	A	A
Calcium Sulfide (Aqueous)	B	B	A	A	A	A	A	B	A	A
Cane Sugar Liquors	A	A	A	A	A	A	A	A	A	A
Carbamate	D	D	B	B	C	B	B	*	A	A
Carbitol	B	B	B	B	B	B	B	B	B	B
Carbolic Acid (Phenol)	D	D	B	B	D	C	D	D	A	A
Carbon Bisulfide	D	D	D	D	C	D	D	D	A	A
Carbon Dioxide	B	B	B	B	A	B	B	B	A	A
Carbonic Acid	A	B	A	A	B	A	A	A	A	A
Carbon Monoxide	B	B	A	A	A	B	B	A	A	A
Carbon Tetrachloride	D	D	D	D	C	D	D	D	A	A
Castor Oil	A	A	B	B	A	A	B	A	A	A
Cellosolve	D	D	B	B	D	D	D	D	C	D
Cellosolve Acetate	D	D	B	B	D	D	D	D	D	D
Cellulube (Fryquel)	D	D	A	A	D	D	D	A	A	A
China Wood Oil (Tung Oil)	D	D	C	C	A	B	C	D	A	A
Chlorine (Dry)	D	D	D	D	D	C	B	D	A	A
Chlorine (Wet)	D	D	C	C	D	C	C	D	B	A
Chlorine Dioxide	D	D	C	C	D	D	C	*	A	A
Chlorine Trifluoride	D	D	D	D	D	D	D	D	D	D
Chloroacetic Acid	D	D	B	A	D	D	A	*	D	C
Chloroacetone	D	D	B	A	D	C	C	D	D	C
Cholorobenzene	D	D	D	D	D	D	D	D	A	A
Chlorobromomethane	D	D	B	B	D	D	D	D	A	A
Chlorobutadiene	D	D	D	D	D	D	D	D	A	A
Chlorododecane	D	D	D	D	D	D	D	D	A	A
Chloroform	D	D	D	D	D	D	D	D	A	A
O-Chloronapthalene	D	D	D	D	D	D	D	D	A	A
1-Chloro-1-Nitro Ethane	D	D	D	D	D	D	D	D	D	D
Chlorosulfonic Acid	D	D	D	D	D	D	D	D	D	D

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Chlorotoluene	D	D	D	D	D	D	D	D	A	A
Chlorox(SodiumHypochloriteNAOCl)	D	D	B	B	B	A	B	B	A	A
Chrome Plating Solutions	D	D	B	B	D	D	D	B	A	A
Chromic Acid	D	D	C	C	D	C	B	C	A	A
Citric Acid	A	A	A	A	A	A	A	A	A	A
Coal Tar (Creosote)	D	D	D	D	A	B	D	D	A	A
Cobalt Chloride (Aqueous)	A	A	A	A	A	A	A	B	A	A
Cocanut Oil	D	D	C	C	A	B	C	A	A	A
Cod Liver Oil	D	D	A	A	A	B	B	B	A	A
Coke Oven Gas	D	D	D	D	D	D	C	B	A	A
Copper Acetate (Aqueous)	A	D	A	A	B	B	B	D	D	D
Copper Chloride (Aqueous)	A	A	A	A	A	B	B	A	A	A
Copper Cyanide (Aqueous)	A	A	A	A	A	A	A	A	A	A
Copper Sulfate (Aqueous)	B	B	B	A	A	A	A	A	A	A
Corn Oil	D	D	C	C	A	C	B	A	A	A
Cottonseed Oil	D	D	C	B	A	B	B	A	A	A
Creosote (Coal Tar)	D	D	D	D	A	B	D	D	A	A
Cresol	D	D	D	D	D	C	D	D	A	A
Cresylic Acid	D	D	D	D	D	C	D	D	A	A
Cumene	D	D	D	D	D	D	D	D	A	A
Cyclohexane	D	D	D	D	A	C	D	D	A	A
Cyclohexanol	D	D	D	C	C	A	B	D	A	A
Cyclohexanone	D	D	B	B	D	D	D	D	D	D
P-Cymene	D	D	D	D	D	D	D	D	A	A
Decalin	D	D	D	D	D	D	D	D	A	A
Decane	D	D	D	D	A	D	C	B	A	A
Denatured Alcohol	A	A	A	A	A	A	A	A	A	A
Detergent Solutions	B	B	A	A	A	B	B	A	A	A
Developing Fluids	A	B	B	B	A	A	A	A	A	A
Diacetone	D	D	A	A	D	D	D	D	D	C
Diacetone Alcohol	D	D	A	A	D	B	B	B	D	C

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Dibenzyl Ether	D	D	B	B	D	C	D	*	D	D
Dibenzyl Sebecate	D	D	B	B	D	D	D	C	B	A
Dibromoethylbenzene	D	D	D	D	D	D	D	D	B	A
Dibutyl Amine	D	D	D	C	D	D	D	C	D	D
Dibutyl Ether	D	D	C	C	D	C	D	D	C	C
Dibutyl Phthalate	D	D	C	B	D	D	D	B	C	A
Dibutyl Sebecate	D	D	B	B	D	D	D	B	B	A
O-Dichlorobenzene	D	D	D	D	D	D	D	D	A	A
Dichloro-Isopropyl Ether	D	D	D	C	D	D	D	D	C	C
Dicyclohexylamine	D	D	D	D	C	D	D		D	D
Diesel Oil	D	D	D	D	A	C	C	D	A	A
Diethylamine	B	B	B	B	B	B	C	B	D	D
Diethyl Benzene	D	D	D	D	D	D	D	D	A	A
Diethyl Ether	D	D	D	D	D	C	C	D	D	D
Diethylene Glycol	A	A	A	A	A	A	A	B	A	A
Diethyl Sebecate	D	D	B	B	B	D	B	B	B	A
Diisobutylene	D	D	D	D	B	D	D	D	A	A
Diisopropyl Benzene	D	D	D	D	D	D	D	*	A	A
Diisopropyl Ketone	D	D	A	A	D	D	D	D	D	D
DiisopropylideneAcetone(Phorone)	D	D	C	C	D	D	D	D	D	D
Dimethyl Aniline (Xylidine)	C	C	C	B	C	C	D	D	D	D
Dimethyl Ether (Methyl Ether)	D	D	D	D	A	C	C	A	D	D
Dimethyl Formamide	D	D	B	B	B	C	D	B	D	D
Dimethyl Phthalate	D	D	B	B	D	D	D	*	B	A
Dinitrotoluene	D	D	D	D	D	D	D	D	D	D
Diocetyl Phtalate	D	D	B	B	C	D	D	C	B	A
Diocetyl Sebecate	D	D	B	B	D	D	D	C	B	A
Dioxane	D	D	B	B	D	D	D	D	D	D
Dioxolane	D	D	C	B	D	D	D	D	D	D
Dipentene	D	D	D	D	B	D	D	D	A	A
Diphenyl(Biphenyl)(Phenylbenzene)	D	D	D	D	D	D	D	D	A	A

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Diphenyl Oxides	D	D	D	D	D	D	D	C	A	A
Dowtherm Oil	D	D	D	D	D	D	D	C	A	A
Dry Cleaning Fluids	D	D	D	D	C	D	D	D	A	A
Epichlorohydrin	D	D	B	B	D	D	D	D	D	D
Ethane	D	D	D	D	A	B	B	D	A	A
Ethanolamine	B	B	B	B	B	B	C	B	D	D
Ethyl Acetate	D	D	B	B	D	C	D	B	D	D
Ethyl Acetoacetate	C	C	B	B	D	C	D	B	D	D
Ethyl Acrylate	D	D	B	B	D	D	D	B	D	D
Ethyl Alcohol	A	A	A	A	A	A	A	A	B	A
Ethyl Benzene	D	D	D	D	D	D	D	D	A	A
Ethyl Benzoate	A	A	A	A	D	D	D	D	A	A
Ethyl Cellosolve	D	D	D	D	D	D	D	D	D	D
Ethyl Cellulose	B	B	B	B	B	B	B	C	D	D
Ethyl Chloride	D	D	D	C	A	D	D	D	A	A
Ethyl Chlorocarbonate	D	D	C	B	D	D	D	D	A	A
Ethyl Chloroformate	D	D	C	B	D	D	D	D	D	D
Ethyl Ether	D	D	C	C	C	C	D	D	D	D
Ethyl Formate	D	D	B	B	D	B	B	*	A	A
Ethyl Mercaptan	D	D	D	C	D	C	B	C	B	A
Ethyl Oxalate	A	A	A	A	D	C	D	D	A	A
Ethyl Pentachlorobenzene	D	D	D	D	D	D	D	D	A	A
Ethyl Silicate	B	B	A	A	A	A	B	*	A	A
Ethylene	C	C	B	B	A	C	*	*	A	A
Ethylene Chloride	D	D	C	C	D	D	D	D	B	A
Ethylene Chlorohydrin	B	B	B	B	D	B	B	C	A	A
Ethylene Diamine	A	B	A	A	A	A	B	A	D	D
Ethylene Dichloride	D	D	C	C	D	D	D	D	A	A
Ethylene Glycol	A	A	A	A	A	A	A	A	A	A
Ethylene Oxide	D	D	C	C	D	D	D	D	D	D
Ethylene Trichloride	D	D	C	C	D	D	D	D	A	A

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Fatty Acids	D	D	C	C	B	B	B	C	A	A
Ferric Chloride (Aqueous)	A	A	A	A	A	A	A	B	A	A
Ferric Nitrate (Aqueous)	A	A	A	A	A	A	A	C	A	A
Ferric Sulfate (Aqueous)	A	A	A	A	A	A	A	B	A	A
Fish Oil	D	D	D	D	A	D	*	A	A	A
Fluorinated Cyclic Ethers	D	D	A	A	*	D	*	*	*	*
Fluorine (Liquid)	D	D	D	D	D	D	*	D	B	B
Fluorobenzene	D	D	D	D	D	D	*	D	A	A
Fluoroboric Acid	A	A	A	A	A	A	A	*	*	*
Fluorocarbon Oils	B	B	A	A		B	*	*	*	*
Fluorolube	B	C	A	A	A	B	A	A	B	A
Fluorosilicic Acid (Hydrofluosilicic Acid)	B	C	B	B	A	B	A	D	A	A
Formaldehyde (RT)	B	B	A	A	C	B	A	B	D	D
Formic Acid	B	A	A	A	B	A	A	B	C	D
Freon 11	D	D	D	D	B	C	A	D	A	A
Freon 12	B	A	B	B	A	A	A	D	B	A
Freon 13	A	A	A	A	A	A	A	D	A	A
Freon 21	D	D	D	D	D	D	D	D	D	D
Freon 22	B	A	A	A	D	A	A	D	D	D
Freon 31	B	B	A	A	D	B	B	*	D	D
Freon 32	A	A	A	A	A	A	A	*	D	D
Freon 112	D	C	D	D	B	C	B	D	A	A
Freon 113	C	B	D	C	A	A	A	D	B	A
Freon 114	A	A	A	A	A	A	A	D	B	A
Freon 115	A	A	A	A	A	A	A	*	B	A
Freon 142b	B	B	A	B	A	A	A	*	D	D
Freon 152b	A	A	A	A	A	A	C	*	D	D
Freon 218	A	A	A	A	A	A	A	*	A	A
Freon C316	A	A	A	A	A	A	A	*	B	A
Freon C318	A	A	A	A	A	A	A	*	B	A
Freon 13B1	A	A	A	A	A	A	A	D	A	A

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CHEMICAL	Natural Rubber, Isoprene (NR, IR)	Styrene, Butadiene (SBR, BR)	Butyl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI, VMQ)	Viton, Fluoroelastomer (FKM)	Viton B Fluoroelastomer (FKM)
Freon 114B2	D	C	D	D	B	C	A	D	B	A
Freon 502	A	A	A	A	B	A	*	*	B	A
Freon TF	D	C	D	D	A	A	A	D	B	A
Freon T-WD602	D	C	B	B	B	B	B	D	A	A
Freon TMC	D	D	C	C	B	C	B	C	A	A
Freon TP35	A	A	A	A	A	A	A	A	A	A
Freon TA	C	C	B	B	A	B	A	C	D	C
Freon TC	D	C	B	B	A	A	A	D	A	A
Freon MF	D	D	D	D	A	C	B	D	B	A
Freon BF	D	D	D	D	B	C	B	D	A	A
Fuel Oil	D	D	D	D	A	B	B	D	A	A
Fumaric Acid	C	C	D	D	A	B	B	B	A	A
Furan, Furfuran	D	D	D	C	D	D	D	*	D	D
Furfural	D	D	B	B	D	C	C	D	D	D
Fyquel (Cellulube)	D	D	A	A	D	D	D	A	A	A
Gallic Acid	A	B	B	B	B	B	B	*	A	A
Gasoline	D	D	D	D	B	C	C	D	A	A
Gelatin	A	A	A	A	A	A	A	A	A	A
Glauber's Salt (Aqueous)	B	D	B	B	D	B	B	*	A	A
Glucose	A	A	A	A	A	A	A	A	A	A
Glue	B	B	B	A	A	A	A	A	A	A
Glycerin	A	A	A	A	A	A	A	A	A	A
Glycols	A	A	A	A	A	A	A	A	A	A
Green Sulfate Liquor	B	B	A	A	B	B	B	A	A	A
Halowax Oil	D	D	D	D	D	D	D	D	A	A
N-Hexaldehyde	D	D	B	A	D	A	C	B	D	D
Hexane	D	D	D	D	A	B	B	D	A	A
N-Hexene-1	D	D	D	D	B	B	B	D	A	A
Hexyl Alcohol	B	B	C	C	A	B	B	B	A	A
Hydrazine	A	A	A	A	B	B	B	C	D	D
Hydraulic Oil (Petroleum)	D	D	D	D	A	B	B	C	A	A

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Hydrobromic Acid	A	D	A	A	D	D	A	D	A	A
Hydrobromic Acid 40%	A	D	A	A	D	B	A	D	A	A
Hydrochloric Acid (Cold) 37%	B	B	A	A	C	B	A	C	A	A
Hydrochloric Acid (Hot) 37%	D	D	C	C	D	D	D	D	B	A
Hydrocyanic Acid	B	B	A	A	B	B	A	C	A	A
Hydrofluoric Acid (Conc.) Cold	D	D	C	C	D	D	A	D	A	A
Hydrofluoric Acid (Conc.) Hot	D	D	D	D	D	D	C	D	D	D
Hydrofluoric Acid- Anhydrous	D	D	C	C	D	D	A	D	D	D
Hydrofluosilicic Acid (Fluosilicic Acid)	B	C	B	B	A	B	A	D	A	A
Hydrogen Gas	B	A	A	A	A	A	A	C	A	A
Hydrogen Peroxide (90%)	D	D	C	B	D	D	A	B	B	A
Hydrogen Sulfide (Wet) Cold	D	D	A	A	D	B	B	C	D	C
Hydrogen Sulfide (Wet) Hot	D	D	A	A	D	C	C	C	D	C
Hydroquinone	B	D	B	B	C	D	D	*	B	A
Hypochlorous Acid	B	D	B	B	D	D	D	*	A	A
Iodine Pentafluoride	D	D	D	D	D	D	D	D	D	D
Iodoform	D	D	D	D	*	D	*	*	C	B
Isobutyl Alcohol	A	B	A	A	B	A	A	A	A	A
Isooctane	D	D	D	D	A	B	B	D	A	A
Isophorone	D	D	C	C	D	D	D	D	D	D
Isopropyl Acetate	D	D	B	B	D	D	D	D	D	D
Isopropyl Alcohol	A	B	A	A	B	B	A	A	A	A
Isopropyl Chloride	D	D	D	D	D	D	D	D	A	A
Isopropyl Ether	D	D	D	D	B	C	C	D	D	D
Kerosene	D	D	D	D	A	B	C	D	A	A
Lacquers	D	D	D	D	D	D	D	D	D	B
Lacquer Solvents	D	D	D	D	D	D	D	D	D	D
Lactic Acid (Cold)	A	A	A	A	A	A	A	A	A	A
Lactic Acid (Hot)	D	D	D	D	D	D	C	B	A	A
Lard	D	D	B	B	A	B	D	B	A	A
Lavendar Oil	D	D	D	D	B	D	D	D	A	A

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Lead Acetate (Aqueous)	A	D	A	A	B	B	D	D	D	D
Lead Nitrate (Aqueous)	A	A	A	A	A	A	A	B	A	A
Lead Sulfamate (Aqueous)	B	B	A	A	B	A	A	B	A	A
Ligroin (Benzine) (Nitrobenzene)	D	D	D	D	A	B	C	B	A	A
Lime Bleach	A	B	A	A	A	B	B	B	A	A
Lime Sulfur	D	D	A	A	D	A	A	A	A	A
Lindol (Hydraulic Fluid)	D	D	A	A	D	D	D	C	B	A
Linoleic Acid	D	D	D	D	B	D	D	B	B	A
Linseed Oil	D	D	C	C	A	B	B	A	A	A
Liquefied Petroleum Gas	D	D	D	D	A	B	B	C	A	A
Lubricating Oils (Petroleum)	D	D	D	D	A	B	B	D	A	A
Lye	B	B	A	A	B	B	A	B	B	A
Magnesium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A	A
Magnesium Hydroxide (Aqueous)	B	B	A	A	B	A	A	*	A	A
Magnesium Sulfate (Aqueous)	B	B	A	A	A	A	A	A	A	A
Maleic Acid	C	C	B	B	D	C	D	*	A	A
Malic Acid	C	C	B	B	D	C	D	*	D	C
Mercury Chloride (Aqueous)	A	A	A	A	A	A	A	*	A	A
Mercury	A	A	A	A	A	A	A	*	A	A
Mesityl Oxide	D	D	B	B	D	D	D	D	D	D
Methane	D	D	D	D	A	B	B	D	A	A
Methyl Acetate	C	C	A	A	D	B	D	D	D	D
Methyl Acrylate	D	D	B	B	D	B	D	D	D	D
Methylacrylic Acid	D	D	B	B	D	B	D	D	D	D
Methyl Alcohol	A	A	A	A	A	A	A	A	D	A
Methyl Bromide	D	D	D	D	B	D	D	*	A	A
MethylButylKetone(PropylAcetone)	D	D	A	A	D	D	D	C	D	D
Methyl Cellosolve	D	D	B	B	C	C	B	D	D	D
Methyl Chloride	D	D	C	C	D	D	D	D	B	A
Methyl Cyclopentane	D	D	D	D	D	D	D	D	A	A
Methylene Chloride	D	D	D	C	D	D	D	D	B	B

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Methyl Ether (Dimethyl Ether)	D	D	D	D	A	C	C	A	D	D
Methyl Ethyl Ketone	D	D	B	A	D	C	D	D	D	D
Methyl Formate	D	D	B	B	D	B	B	*	D	D
Methyl Isobutyl Ketone	D	D	C	B	D	D	D	D	D	D
Methyl Methacrylate	D	D	D	C	D	D	D	D	D	D
Methyl Oleate	D	D	B	B	D	D	D	*	B	A
Methyl Salicylate	C	C	B	B	D	D	D	*	B	A
Milk	A	A	A	A	A	A	A	A	A	A
Mineral Oil	D	D	C	C	A	B	B	B	A	A
Monochlorobenzene	D	D	D	D	D	D	D	D	A	A
Monomethyl Aniline	D	D	B	B	D	D	D	*	B	B
Monoethanol Amine	B	B	B	A	D	D	D	B	D	D
Monomethyl Ether (Methyl Ether)	D	D	D	D	A	C	B	A	D	D
Monovinyl Acetylene	B	B	B	B	A	B	B	B	A	A
Mustard Gas	A	B	A	A	*	A	A	A	A	A
Naphtha	D	D	D	D	B	C	D	D	A	A
Naphthalene	D	D	D	D	D	D	D	D	A	A
Naphthalenic Acid	D	D	D	D	B	D	D	D	A	A
Natural Gas	B	B	D	D	A	A	A	A	A	A
Neats Foot Oil	D	D	B	B	A	D	D	B	A	A
Neville Acid	D	D	B	B	D	D	D	D	A	A
Nickel Acetate (Aqueous)	A	D	A	A	B	B	D	D	D	D
Nickel Chloride (Aqueous)	A	A	A	A	A	A	A	A	A	A
Nickel Sulfate (Aqueous)	B	B	A	A	A	A	A	A	A	A
Niter Cake	A	A	A	A	A	A	A	A	A	A
Nitric Acid (Conc.)	D	D	D	D	D	D	B	D	B	A
Nitric Acid (Dilute)	D	D	B	B	D	B	A	B	A	A
Nitric Acid-Red Fuming	D	D	D	D	D	D	D	D	C	B
Nitrobenzene	D	D	A	A	D	D	D	D	B	A
Nitrobenzene (Petroleum Ether)	D	D	D	D	A	B	C	D	A	A
Nitroethane	B	B	B	B	D	C	B	D	D	D

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Nitrogen	A	A	A	A	A	A	A	A	A	A
Nitrogen Tetroxide	D	D	C	C	D	D	D	D	D	D
Nitromethane	B	B	B	B	D	B	C	D	D	D
Octachlorotoluene	D	D	D	D	D	D	D	D	A	A
Octadecane	D	D	D	D	A	B	B	D	A	A
N-Octane	D	D	D	D	B	B	B	D	A	A
Octyl Alcohol	B	B	C	C	B	A	B	B	A	A
Oleic Acid	D	D	D	D	C	C	C	D	B	B
Oleum Spirits	D	D	D	D	B	C	B	D	A	A
Olive Oil	D	D	B	B	A	B	B	C	A	A
O-Dichlorobenzene	D	D	D	D	D	D	D	D	A	A
Oxalic Acid	B	B	A	A	B	B	B	B	A	A
Oxygen-Cold	B	B	A	A	B	A	A	A	A	A
Oxygen-(200-400oF)	D	D	D	C	D	D	D	B	B	A
Ozone	D	D	B	A	D	C	A	A	A	A
Paint Thinner, Duco	D	D	D	D	D	D	D	D	B	A
Palmitic Acid	B	B	B	B	A	B	C	D	A	A
Peanut Oil	D	D	C	C	A	C	B	A	A	A
Perchloric Acid	D	D	B	B	D	B	B	D	A	A
Perchloroethylene	D	D	D	D	B	D	D	D	A	A
Petroleum-Below 250oF	D	D	D	D	A	B	B	B	A	A
Petroleum-Above 250oF	D	D	D	D	D	B	D	D	B	A
Phenol (Carbolic Acid)	D	*	B	B	D	C	D	D	A	A
Phenylbenzene(Biphenyl)(Diphenyl)	D	D	D	D	D	D	D	D	A	A
Phenyl Ethyl Ether	D	D	D	D	D	D	D	D	D	D
Phenyl Hydrazine	A	B	B	B	D	D	D	*	B	A
Phorone(DiisopropylideneAcetone)	D	D	C	C	D	D	D	D	D	D
Phosphoric Acid-20%	B	B	B	A	B	B	A	B	A	A
Phosphoric Acid-45%	C	C	B	A	D	B	B	C	A	A
Phosphorus Trichloride	D	D	A	A	D	D	D	*	A	A
Pickling Solution	D	D	C	C	D	D	B	D	A	A

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Picric Acid	B	B	B	B	B	A	B	D	A	A
Pinene	D	D	D	D	B	C	C	D	A	A
Pine Oil	D	D	D	D	D	D	D	D	A	A
Piperidine	D	D	D	D	D	D	D	D	D	D
Plating Solution- Chrome	D	D	A	A	*	D	D	D	A	A
Plating Solution- Others	D	D	A	A	A	D	A	D	A	A
Polyvinyl Acetate Emulsion	B	D	A	A	*	B	B	*	*	*
Potassium Acetate (Aqueous)	A	D	A	A	B	B	A	D	D	D
Potassium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A	A
Potassium Cupro Cyanide	A	A	A	A	A	A	A	A	A	A
Potassium Cyanide (Aqueous)	A	A	A	A	A	A	A	A	A	A
Potassium Dichromate (Aqueous)	B	B	A	A	A	A	A	A	A	A
Potassium Hydroxide (Aqueous)	B	B	A	A	A	A	A	A	A	A
Potassium Nitrate (Aqueous)	A	A	A	A	A	A	A	A	A	A
Potassium Sulfate (Aqueous)	B	A	A	A	A	A	A	A	A	A
Producer Gas	D	D	D	D	A	B	B	B	A	A
Propane	D	D	D	D	A	B	B	D	A	A
i-Propyl Acetate	D	D	B	B	D	D	D	D	D	D
n-Propyl Acetate	D	D	B	B	D	D	D	D	D	D
PropylAcetone(MethylButylKetone)	D	D	A	A	D	D	D	C	D	D
Propyl Alcohol	A	A	A	A	A	A	A	A	A	A
Propyl Nitrate	D	D	B	B	D	D	D	D	D	D
Propylene	D	D	D	D	D	D	D	D	A	A
Propylene Oxide	D	D	B	B	D	D	D	D	D	D
Pydraul, 10E, 29 ELT	D	D	A	A	D	D	D	D	A	A
Pydraul, 30E, 50E, 65E, 90E	D	D	A	A	D	D	D	A	A	A
Pydraul, 115E	D	D	A	A	D	D	D	D	A	A
Pydraul, 230E, 312C, 540C	D	D	D	D	D	D	D	D	A	A
Pyranol, Transformer Oil	D	D	D	D	A	B	C	D	A	A
Pyridine	D	D	B	B	D	D	D	D	D	D
Pyroligneous Acid	D	D	B	B	D	B	B	*	D	D

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Pyrrole	C	C	D	C	D	D	D	B	D	D
Radiation	C	C	D	B	C	B	C	C	C	C
Rapeseed Oil	D	D	A	A	B	B	B	D	A	A
Red Oil (MIL-H-5606)	D	D	D	D	A	B	B	D	A	A
RJ-1 (MIL-F-25558 B)	D	D	D	D	A	B	B	D	A	A
RP-1 (MIL-F-25576 C)	D	D	D	D	A	B	B	D	A	A
Sal Ammoniac	A	A	A	A	A	A	A	B	A	A
Salicylic Acid	A	B	A	A	B	A	*	*	A	A
Salt Water	A	A	A	A	A	B	A	A	A	A
Sewage	B	B	B	B	A	B	A	B	A	A
Silicate Esters	D	D	D	D	B	A	A	D	A	A
Silicone Greases	A	A	A	A	A	A	A	C	A	A
Silicone Oils	A	A	A	A	A	A	A	C	A	A
Silver Nitrate	A	A	A	A	B	A	A	A	A	A
Skydrol 500	D	D	B	A	D	D	D	C	D	D
Skydrol 7000	D	D	A	A	D	D	D	C	B	A
Soap Solutions	B	A	A	A	A	B	A	A	A	A
Soda Ash	A	A	A	A	A	A	A	A	A	A
Sodium Acetate (Aqueous)	A	D	A	A	B	B	A	D	D	D
Sodium Bicarbonate (Aqueous) (Baking Soda)	A	A	A	A	A	A	A	A	A	A
Sodium Bisulfite (Aqueous)	A	B	A	A	A	A	A	A	A	A
Sodium Borate (Aqueous)	A	A	A	A	A	A	A	A	A	A
Sodium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A	A
Sodium Cyanide (Aqueous)	A	A	A	A	A	A	A	A	A	A
Sodium Hydroxide (Aqueous)	A	A	A	A	B	A	A	B	B	A
Sodium Hypochlorite (Aqueous) (Chlorox)	D	D	B	B	B	A	A	B	A	A
Sodium Metaphosphate (Aqueous)	A	A	A	A	A	B	B	*	A	A
Sodium Nitrate (Aqueous)	B	A	A	A	B	B	A	D	A	A
Sodium Perborate (Aqueous)	B	B	A	A	B	B	B	B	A	A
Sodium Peroxide (Aqueous)	B	B	A	A	B	B	B	D	B	A
Sodium Phosphate (Aqueous)	A	A	A	A	A	B	A	D	A	A

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Sodium Silicate (Aqueous)	A	A	A	A	A	A	A	*	A	A
Sodium Sulfate (Aqueous)	B	B	A	A	A	A	A	A	A	A
Sodium Thiosulfate (Aqueous)	B	B	A	A	B	A	A	A	A	A
Soybean Oil	D	D	C	C	A	B	C	A	A	A
Stannic Chloride (Aqueous)	A	A	A	A	A	B	A	B	A	A
Stannous Chloride (Aqueous)	A	A	A	A	A	A	A	B	A	A
Steam Under 300oF	D	D	B	A	D	C	D	C	D	B
Steam Over 300oF	D	D	D	C	D	D	D	D	D	D
Stearic Acid	B	B	B	B	B	B	B	B	A	A
Stoddard Solvent	D	D	D	D	A	B	D	D	A	A
Styrene	D	D	D	D	D	D	D	D	B	A
Sucrose Solution	A	A	A	A	A	B	B	A	A	A
Sulfite Liquors	B	B	B	B	B	B	B	D	A	A
Sulfur	D	D	A	A	D	A	A	C	A	A
Sulfur Chloride (Aqueous)	D	D	D	D	C	C	B	C	A	A
Sulfur Dioxide (Dry)	B	B	B	A	D	D	B	B	B	A
Sulfur Dioxide (Wet)	D	D	A	A	D	B	A	B	B	A
Sulfur Dioxide (Liquified Under Pressure)	D	D	B	A	D	D	D	B	B	A
Sulfur Hexafluoride	D	D	A	A	B	A	B	B	A	A
Sulfur Trioxide	B	B	B	B	D	D	D	B	A	A
Sulfuric Acid (Dilute)	C	C	B	B	C	B	A	D	A	A
Sulfuric Acid (conc.)	D	D	D	C	D	D	A	D	A	A
Sulfuric Acid (20% Oleum)	D	D	D	D	D	D	D	D	A	A
Sulfurous Acid	B	B	B	B	B	B	A	D	C	B
Tannic Acid	A	B	A	A	A	A	A	B	A	A
Tar, Bituminous	D	D	C	C	B	C	D	B	A	A
Tartaric Acid	C	D	B	B	A	B	A	A	A	A
Terpineol	D	D	C	C	B	D	D	*	A	A
Tertiary Butyl Alcohol	B	B	B	B	B	B	B	B	A	A
Tertiary Butyl Catechol	D	B	B	B	D	B	B	*	A	A
Tertiary Butyl Mercaptan	D	D	D	D	D	D	D	D	A	A

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CHEMICAL RESISTANCE CHART

A – Recommended
B – Minor to Moderate Effect
C – Moderate to Severe Effect
D – Not Recommended
 * Insufficient Data

CHEMICAL	Natural Rubber, Isoprene (NR, IR)	Styrene, Butadiene (SBR, BR)	Butyl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI, VMQ)	Viton, Fluoroelastomer (FKM)	Viton B Fluoroelastomer (FKM)
Tetrabromoethane	D	D	D	D	D	D	D	D	A	A
Tetrabromomethane	D	D	D	D	D	D	*	D	A	A
Tetrabutyl Titanate	B	B	B	A	B	B	A	*	A	A
Tetrachloroethylene	D	D	D	D	D	D	D	D	A	A
Tetrahydrofuran	D	D	C	C	D	D	D	D	D	D
Tetralin	D	D	D	D	D	D	D	D	B	A
Thionyl Chloride	D	D	D	C	D	D	D	*	B	A
Titanium Tetrachloride	D	D	D	D	B	D	D	D	A	A
Toluene	D	D	D	D	D	D	D	D	B	A
Toluene Diisocyanate	D	D	B	B	D	D	D	D	D	C
Transformer Oil	D	D	D	D	A	B	C	B	A	A
Transmission Fluid Type A	D	D	D	D	A	B	B	B	A	A
Triacetin	B	B	A	A	B	B	B	*	D	C
Triaryl Phosphate	D	D	A	A	D	D	D	C	A	A
Tributoxy Ethyl Phosphate	B	B	A	A	D	D	D	*	A	A
Tributyl Mercaptan	D	D	D	D	D	D	D	D	A	A
Tributyl Phosphate	B	D	B	B	D	D	D	D	D	D
Trichloroacetic Acid	C	B	B	B	B	D	D	*	D	C
Trichloroethane	D	D	D	D	D	D	D	D	A	A
Trichloroethylene	D	D	D	D	D	D	D	D	A	A
Tricresyl Phosphate	D	A	A	D	D	C	D	C	A	A
Trethanol Amine	B	B	B	A	B	A	B	*	D	D
Triethyl Aluminum	D	D	C	C	D	D	D	*	B	A
Triethyl Borane	D	D	C	C	D	D	D	*	A	A
Trinitrotoluene	D	D	D	D	D	B	B	*	B	A
Trioctyl Phosphate	D	D	A	A	D	D	D	C	B	A
Tung Oil (China Wood Oil)	D	D	C	C	A	B	C	D	A	A
Turbine Oil	D	D	D	D	B	D	D	D	A	A
Turpentine	D	D	D	D	A	D	D	D	A	A
Usymmetrical Dimethyl Hydrazine	A	A	A	A	B	B	A	D	D	D
Varnish	D	D	D	D	B	D	D	D	A	A

CARE OF HOSES

CHEMICAL RESISTANCE CHART

A – Recommended
B – Minor to Moderate Effect
C – Moderate to Severe Effect
D – Not Recommended
 * Insufficient Data

CHEMICAL	Natural Rubber, Isoprene (NR, IR)	Styrene, Butadiene (SBR, BR)	Butyl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI, VMQ)	Viton, Fluoroelastomer (FKM)	Viton B Fluoroelastomer (FKM)
Vegetable Oils	D	D	C	C	A	C	B	B	A	A
Versilube F-50	A	A	A	A	A	A	A	C	A	A
Vinegar	B	B	A	A	B	B	A	A	A	A
Vinyl Chloride	D	D	D	D	D	D	D	*	A	A
Wagner 21B Brake Fluid	B	A	B	A	C	B	B	C	D	C
Water	A	A	A	A	A	A	A	A	A	A
Whiskey, Wines	A	A	A	A	A	A	A	A	A	A
White Pine Oil	D	D	D	D	B	D	D	D	A	A
White Oil	D	D	D	D	A	B	D	D	A	A
Wood Oil	D	D	D	D	A	B	C	D	A	A
Xylene	D	D	D	D	D	D	D	D	A	A
Xylidine (Di-methyl Aniline)	C	C	C	B	C	C	D	D	D	C
Zeolites	A	A	A	A	A	A	A	*	A	A
Zinc Acetate (Aqueous)	A	D	A	A	B	B	A	D	D	D
Zinc Chloride (Aqueous)	A	A	A	A	A	A	A	A	A	A
Zinc Sulfate (Aqueous)	B	B	A	A	A	A	A	A	A	A