

Samco Silicone Products

Chemical resistance of Rubber materials

A - Recommended B - Minor to Moderate Effect C - Moderate to Severe Effect D - Not Recommended * Insufficient Data								
Chemical	Natural Rubber	Butyl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Silicone (SI, VMQ)	Viton, Fluoroelastomer (FKM)	Viton B Fluoroelastomer (FKM)
Acetaldehyde	B	A	A	D	C	B	D	C
Acetamide	D	A	A	A	B	B	B	A
Acetic Acid, Glacial	B	B	A	C	D	B	C	C
Acetic Acid, 30%	B	B	A	B	A	A	B	A
Acetic Anhydride	B	B	B	C	B	C	D	D
Acetone	C	A	A	D	C	C	D	D
Acetophenone	D	A	A	D	D	D	D	D
Acetyl Chloride	D	D	D	D	D	C	A	A
Acetylene	B	A	A	A	B	B	A	A
Acrylonitrile	D	D	D	D	D	D	C	D
Adipic Acid	A	A	A	A	A		A	A
Alkazene (Dibromoethylbenzene)	D	D	D	D	D	D	B	B
Alum-NH3-Cr-K (Aqueous)	A	A	A	A	A	A	D	*
Aluminum Acetate (Aqueous)	A	A	A	B	B	D	D	D
Aluminum Chloride (Aqueous)	A	A	A	A	A	B	A	A
Aluminum Fluoride (Aqueous)	B	A	A	A	A	B	A	A
Aluminum Nitrate (Aqueous)	A	A	A	A	A	B	A	A
Aluminum Phosphate (Aqueous)	A	A	A	A	A	A	A	A
Aluminum Sulfate (Aqueous)	A	A	A	A	A	A	A	A
Ammonia Anhydrous	D	A	A	B	A	C	D	D
Ammonia Gas (cold)	A	A	A	A	A	A	D	D
Ammonia Gas (hot)	D	B	B	D	B	A	D	D
Ammonium Carbonate (Aqueous)	A	A	*	D	A	*	A	A
Ammonium Chloride (Aqueous)	A	A	A	A	A		A	A
Ammonium Hydroxide (conc.)	D	A	A	D	A	A	B	A
Ammonium Nitrate (Aqueous)	C	A	A	A	A	*	A	A
Ammonium Nitrite (Aqueous)	A	A	A	A	A	B	A	A
Ammonium Persulfate (Aqueous)	A	A	A	D	A	*	A	A
Ammonium Phosphate (Aqueous)	A	A	A	A	A	A	A	A
Ammonium Sulfate (Aqueous)	A	A	A	A	A	*	B	A
Amyl Acetate (Banana Oil)	D	C	C	D	D	D	D	D
Amyl Alcohol	B	A	A	B	B	D	B	A
Amyl Borate	D	D	D	A	A	*	A	A
Amyl Chloronapthalene	D	D	D	D	D	D	A	A
Amyl Napthalene	D	D	D	D	D	D	A	A
Aniline	D	A	A	D	D	D	C	A
Aniline Dyes	B	B	A	D	B	C	B	A
Aniline Hydrochloride	B	B	B	B	D	D	B	A
Animal Fats	D	B	B	A	B	B	A	A
Ansul Ether (Anesthetics)	D	C	C	C	D	D	D	D
Aqua Regia	D	D	C	D	D	D	B	A
Aroclor, 1248	D	C	C	C	D	B	A	A
Aroclor, 1254	D	D	C	D	D	C	A	A
Aroclor, 1260	A	A	A	A	A	B	A	A
Arsenic Acid	B	A	A	A	A	A	A	A
Arsenic Trichloride (Aqueous)	D	C	C	A	A	*	D	D
Askarel	D	D	D	B	D	D	A	A
Asphalt	D	D	D	B	B	D	A	A
Banana Oil (Amyl Acetate)	D	C	C	D	D	D	D	D
Barium Chloride (Aqueous)	A	A	A	A	A	A	A	A
Barium Hydroxide (Aqueous)	A	A	A	A	A	A	A	A
Barium Sulfate (Aqueous)	A	A	A	A	A	A	A	A
Barium Sulfide (Aqueous)	A	A	A	A	A	A	A	A
Beer	A	A	A	A	A	A	A	A
Beet Sugar Liqours	A	A	A	A	B	A	A	A
Benzaldehyde	D	A	A	D	D	B	D	D
Benzene	D	D	D	D	D	D	A	A
(Nitrobenzine) (Pet Ether)	D	D	C	D	B	D	A	A
Benzine (Ligroin)	D	D	D	A	B	D	A	A
Benzoic Acid	D	D	C	C	D	C	A	A
Benzoyl Chloride	D	D	D	D	D	*	B	A

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Chemical	Natural Rubber	Butyl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Silicone (SI, VMQ)	Viton, Fluoroelastomer (FKM)	Viton B Fluoroelastomer (FKM)		
Benzyl Alcohol	D	A	A	D	B	B	A	A		
Benzyl Benzoate	D	B	B	D	D	*	A	A		
Benzyl Chloride	D	D	D	D	D	D	A	A		
(Phenylbenzene)	D	D	D	D	D	D	A	A		
Blast Furnace Gas	D	D	D	D	D	A	A	A		
Bleach Solutions	D	A	A	D	D	B	A	A		
Borax	B	A	A	B	A	B	A	A		
Bordeaux Mixture	B	A	A	B	B	B	A	A		
Brine	A	A	A	A	A	A	A	A		
Bromine-Anhydrous	D	D	D	D	D	D	A	A		
Bromine Trifluoride	D	D	D	D	D	D	D	D		
Bromine Water	D	C	B	D	D	D	A	A		
Bromobenzene	D	D	D	D	D	D	A	A		
Bunker Oil	D	D	D	A	D	B	A	A		
Butadiene	D	D	C	D	D	D	A	A		
Butter (Animal Fat)	D	B	A	A	B	B	A	A		
Butyl Acetate	D	C	C	D	D	D	D	D		
Butyl Acetate Ricinoleate	D	A	A	C	B	*	A	A		
Butyl Acrylate	D	D	D	D	D	*	D	D		
Butyl Alcohol	A	B	B	A	A	B	A	A		
Butyl Amine	D	C	B	C	D	D	D	D		
Butyl Benzoate	C	B	B	D	D	*	A	A		
Butyl Carbitol	D	A	A	D	C	D	C	B		
Butyl Cellosolve	D	A	A	C	C	*	D	D		
Butyl Oleate	D	B	B	D	D	*	A	A		
Butyl Stearate	D	C	C	B	D	*	A	A		
Butylene	D	D	D	B	C	D	A	A		
Butyraldehyde	D	B	B	D	C	D	D	D		
Calcium Acetate (Aqueous)	A	A	A	B	B	D	D	D		
Calcium Bisulfite (Aqueous)	D	D	D	D	A	A	A	A		
Calcium Chloride (Aqueous)	A	A	A	A	A	A	A	A		
Calcium Hydroxide (Aqueous)	A	A	A	A	A	A	A	A		
Calcium Hypochlorite (Aqueous)	C	A	A	B	C	B	A	A		
Calcium Nitrate (Aqueous)	A	A	A	A	A	B	A	A		
Calcium Sulfide (Aqueous)	B	A	A	A	A	B	A	A		
Cane Sugar Liqours	A	A	A	A	A	A	A	A		
Carbamate	D	B	B	C	B	*	A	A		
Carbitol	B	B	B	B	B	B	B	B		
Carbolic Acid (Phenol)	D	B	B	D	C	D	A	A		
Carbon Bisulfide	D	D	D	C	D	D	A	A		
Carbon Dioxide	B	B	B	A	B	B	A	A		
Carbonic Acid	A	A	A	B	A	A	A	A		
Carbon Monoxide	B	A	A	A	B	A	A	A		
Carbon Tetrachloride	D	D	D	C	D	D	A	A		
Castor Oil	A	B	B	A	A	A	A	A		
Cellosolve	D	B	B	D	D	D	C	D		
Cellosolve Acetate	D	B	B	D	D	D	D	D		
Cellulube (Fryquel)	D	A	A	D	D	A	A	A		
China Wood Oil (Tung Oil)	D	C	C	A	B	D	A	A		
Chlorine (Dry)	D	D	D	D	C	D	A	A		
Chlorine (Wet)	D	C	C	D	C	D	B	A		
Chlorine Dioxide	D	C	C	D	D	*	A	A		
Chlorine Trifluoride	D	D	D	D	D	D	D	D		
Chloroacetic Acid	D	B	A	D	D	*	D	C		
Chloroacetone	D	B	A	D	C	D	D	C		
Chlorobenzene	D	D	D	D	D	D	A	A		
Chlorobromomethane	D	B	B	D	D	D	A	A		
Chlorobutadiene	D	D	D	D	D	D	A	A		
Chlorododecane	D	D	D	D	D	D	A	A		
Chloroform	D	D	D	D	D	D	A	A		
O-Chloronaphthalene	D	D	D	D	D	D	A	A		
1-Chloro-1-Nitro Ethane	D	D	D	D	D	D	D	D		

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Chlorosulfonic Acid	D	D	D	D	D	D	D	D
Chlorotoluene	D	D	D	D	D	D	A	A
NAOCl)	D	B	B	B	A	B	A	A
Chrome Plating Solutions	D	B	B	D	D	B	A	A
Chromic Acid	D	C	C	D	C	C	A	A
Citric Acid	A	A	A	A	A	A	A	A
Coal Tar (Creosote)	D	D	D	A	B	D	A	A
Cobalt Chloride (Aqueous)	A	A	A	A	A	B	A	A
Cocanut Oil	D	C	C	A	B	A	A	A
Cod Liver Oil	D	A	A	A	B	B	A	A
Coke Oven Gas	D	D	D	D	D	B	A	A
Copper Acetate (Aqueous)	A	A	A	B	B	D	D	D
Copper Chloride (Aqueous)	A	A	A	A	B	A	A	A
Copper Cyanide (Aqueous)	A	A	A	A	A	A	A	A
Copper Sulfate (Aqueous)	B	B	A	A	A	A	A	A
Corn Oil	D	C	C	A	C	A	A	A
Cottonseed Oil	D	C	B	A	B	A	A	A
Creosote (Coal Tar)	D	D	D	A	B	D	A	A
Cresol	D	D	D	D	C	D	A	A
Cresylic Acid	D	D	D	D	C	D	A	A
Cumene	D	D	D	D	D	D	A	A
Cyclohexane	D	D	D	A	C	D	A	A
Cyclohexanol	D	D	C	C	A	D	A	A
Cyclohexanone	D	B	B	D	D	D	D	D
P-Cymene	D	D	D	D	D	D	A	A
Decalin	D	D	D	D	D	D	A	A
Decane	D	D	D	A	D	B	A	A
Denatured Alcohol	A	A	A	A	A	A	A	A
Detergent Solutions	B	A	A	A	B	A	A	A
Developing Fluids	A	B	B	A	A	A	A	A
Diacetone	D	A	A	D	D	D	D	C
Diacetone Alcohol	D	A	A	D	B	B	D	C
Dibenzyl Ether	D	B	B	D	C	*	D	D
Dibenzyl Sebecate	D	B	B	D	D	C	B	A
Dibromoethylbenzene	D	D	D	D	D	D	B	A
Dibutyl Amine	D	D	C	D	D	C	D	D
Dibutyl Ether	D	C	C	D	C	D	C	C
Dibutyl Phthalate	D	C	B	D	D	B	C	A
Dibutyl Sebecate	D	B	B	D	D	B	B	A
O-Dichlorobenzene	D	D	D	D	D	D	A	A
Dichloro-isopropyl Ether	D	D	C	D	D	D	C	C
Dicyclohexylamine	D	D	D	C	D		D	D
Diesel Oil	D	D	D	A	C	D	A	A
Diethylamine	B	B	B	B	B	B	D	D
Diethyl Benzene	D	D	D	D	D	D	A	A
Diethyl Ether	D	D	D	D	C	D	D	D
Diethylene Glycol	A	A	A	A	A	B	A	A
Diethyl Sebecate	D	B	B	B	D	B	B	A
Diisobutylene	D	D	D	B	D	D	A	A
Diisopropyl Benzene	D	D	D	D	D	*	A	A
Diisopropyl Ketone (Phorone)	D	A	A	D	D	D	D	D
Dimethyl Aniline (Xylidine)	C	C	B	C	C	D	D	D
Dimethyl Ether (Methyl Ether)	D	D	D	A	C	A	D	D
Dimethyl Formamide	D	B	B	B	C	B	D	D
Dimethyl Phthalate	D	B	B	D	D	*	B	A
Dinitrotoluene	D	D	D	D	D	D	D	D
Dioctyl Phtalate	D	B	B	C	D	C	B	A
Dioctyl Sebecate	D	B	B	D	D	C	B	A
Dioxane	D	B	B	D	D	D	D	D
Dioxolane	D	C	B	D	D	D	D	D
Dipentene	D	D	D	B	D	D	A	A

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(Phenylbenzene)	D	D	D	D	D	D	A	A
Diphenyl Oxides	D	D	D	D	D	C	A	A
Dowtherm Oil	D	D	D	D	D	C	A	A
Dry Cleaning Fluids	D	D	D	C	D	D	A	A
Epichlorohydrin	D	B	B	D	D	D	D	D
Ethane	D	D	D	A	B	D	A	A
Ethanolamine	B	B	B	B	B	B	D	D
Ethyl Acetate	D	B	B	D	C	B	D	D
Ethyl Acetoacetate	C	B	B	D	C	B	D	D
Ethyl Acrylate	D	B	B	D	D	B	D	D
Ethyl Alcohol	A	A	A	A	A	A	B	A
Ethyl Benzene	D	D	D	D	D	D	A	A
Ethyl Benzoate	A	A	A	D	D	D	A	A
Ethyl Cellosolve	D	D	D	D	D	D	D	D
Ethyl Cellulose	B	B	B	B	B	C	D	D
Ethyl Chloride	D	D	C	A	D	D	A	A
Ethyl Chlorocarbonate	D	C	B	D	D	D	A	A
Ethyl Chloroformate	D	C	B	D	D	D	D	D
Ethyl Ether	D	C	C	C	C	D	D	D
Ethyl Formate	D	B	B	D	B	*	A	A
Ethyl Mercaptan	D	D	C	D	C	C	B	A
Ethyl Oxalate	A	A	A	D	C	D	A	A
Ethyl Pentachlorobenzene	D	D	D	D	D	D	A	A
Ethyl Silicate	B	A	A	A	A	*	A	A
Ethylene	C	B	B	A	C	*	A	A
Ethylene Chloride	D	C	C	D	D	D	B	A
Ethylene Chlorohydrin	B	B	B	D	B	C	A	A
Ethylene Diamine	A	A	A	A	A	A	D	D
Ethylene Dichloride	D	C	C	D	D	D	A	A
Ethylene Glycol	A	A	A	A	A	A	A	A
Ethylene Oxide	D	C	C	D	D	D	D	D
Ethylene Trichloride	D	C	C	D	D	D	A	A
Fatty Acids	D	C	C	B	B	C	A	A
Ferric Chloride (Aqueous)	A	A	A	A	A	B	A	A
Ferric Nitrate (Aqueous)	A	A	A	A	A	C	A	A
Ferric Sulfate (Aqueous)	A	A	A	A	A	B	A	A
Fish Oil	D	D	D	A	D	A	A	A
Fluorinated Cyclic Ethers	D	A	A	*	D	*	*	*
Fluorine (Liquid)	D	D	D	D	D	D	B	B
Fluorobenzene	D	D	D	D	D	D	A	A
Fluoroboric Acid	A	A	A	A	A	*	*	*
Fluorocarbon Oils	B	A	A		B	*	*	*
Fluorolube (Acid)	B	B	B	A	B	D	A	A
Formaldehyde (RT)	B	A	A	C	B	B	D	D
Formic Acid	B	A	A	B	A	B	C	D
Freon 11	D	D	D	B	C	D	A	A
Freon 12	B	B	B	A	A	D	B	A
Freon 13	A	A	A	A	A	D	A	A
Freon 21	D	D	D	D	D	D	D	D
Freon 22	B	A	A	D	A	D	D	D
Freon 31	B	A	A	D	B	*	D	D
Freon 32	A	A	A	A	A	*	D	D
Freon 112	D	D	D	B	C	D	A	A
Freon 113	C	D	C	A	A	D	B	A
Freon 114	A	A	A	A	A	D	B	A
Freon 115	A	A	A	A	A	*	B	A
Freon 142b	B	A	B	A	A	*	D	D
Freon 152b	A	A	A	A	A	*	D	D
Freon 218	A	A	A	A	A	*	A	A
Freon C316	A	A	A	A	A	*	B	A
Freon C318	A	A	A	A	A	*	B	A

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Freon 13B1	A	A	A	A	A	D	A	A		
Freon 114B2	D	D	D	B	C	D	B	A		
Freon 502	A	A	A	B	A	*	B	A		
Freon TF	D	D	D	A	A	D	B	A		
Freon T-WD602	D	B	B	B	B	D	A	A		
Freon TMC	D	C	C	B	C	C	A	A		
Freon T-P35	A	A	A	A	A	A	A	A		
Freon TA	C	B	B	A	B	C	D	C		
Freon TC	D	B	B	A	A	D	A	A		
Freon MF	D	D	D	A	C	D	B	A		
Freon BF	D	D	D	B	C	D	A	A		
Fuel Oil	D	D	D	A	B	D	A	A		
Fumaric Acid	C	D	D	A	B	B	A	A		
Furan, Furfuran	D	D	C	D	D	*	D	D		
Furfural	D	B	B	D	C	D	D	D		
Fyquel (Cellulube)	D	A	A	D	D	A	A	A		
Gallic Acid	A	B	B	B	B	*	A	A		
Gasoline	D	D	D	B	C	D	A	A		
Gelatin	A	A	A	A	A	A	A	A		
Glauber's Salt (Aqueous)	B	B	B	D	B	*	A	A		
Glucose	A	A	A	A	A	A	A	A		
Glue	B	B	A	A	A	A	A	A		
Glycerin	A	A	A	A	A	A	A	A		
Glycols	A	A	A	A	A	A	A	A		
Green Sulfate Liquor	B	A	A	B	B	A	A	A		
Halowax Oil	D	D	D	D	D	D	A	A		
N-Hexaldehyde	D	B	A	D	A	B	D	D		
Hexane	D	D	D	A	B	D	A	A		
N-Hexene-1	D	D	D	B	B	D	A	A		
Hexyl Alcohol	B	C	C	A	B	B	A	A		
Hydrazine	A	A	A	B	B	C	D	D		
Hydraulic Oil (Petroleum)	D	D	D	A	B	C	A	A		
Hydrobromic Acid	A	A	A	D	D	D	A	A		
Hydrobromic Acid 40%	A	A	A	D	B	D	A	A		
Hydrochloric Acid (Cold) 37%	B	A	A	C	B	C	A	A		
Hydrochloric Acid (Hot) 37%	D	C	C	D	D	D	B	A		
Hydrocyanic Acid	B	A	A	B	B	C	A	A		
Hydrofluoric Acid (Conc.) Cold	D	C	C	D	D	D	A	A		
Hydrofluoric Acid (Conc.) Hot	D	D	D	D	D	D	D	D		
Hydrofluoric Acid- Anhydrous Acid)	D	C	C	D	D	D	D	D		
Hydrogen Gas	B	B	B	A	B	D	A	A		
Hydrogen Peroxide (90%)	B	A	A	A	A	C	A	A		
Hydrogen Sulfide (Wet) Cold	D	C	B	D	D	B	B	A		
Hydrogen Sulfide (Wet) Hot	D	A	A	D	B	C	D	C		
Hydroquinone	D	A	A	D	D	C	D	C		
Hypo-chlorous Acid	B	B	B	C	D	*	B	A		
Iodine Pentafluoride	B	B	B	D	D	*	A	A		
Iodoform	D	D	D	D	D	D	D	D		
Isobutyl Alcohol	D	D	D	*	D	*	C	B		
Isooctane	A	A	A	B	A	A	A	A		
Isophorone	D	D	D	A	B	D	A	A		
Isopropyl Acetate	D	C	C	D	D	D	D	D		
Isopropyl Alcohol	D	B	B	D	D	D	D	D		
Isopropyl Chloride	A	A	A	B	B	A	A	A		
Isopropyl Ether	D	D	D	D	D	D	A	A		
Kerosene	D	D	D	B	C	D	D	D		
Lacquers	D	D	D	A	B	D	A	A		
Lacquer Solvents	D	D	D	D	D	D	D	B		
Lactic Acid (Cold)	D	D	D	D	D	D	D	D		
Lactic Acid (Hot)	A	A	A	A	A	A	A	A		
Lard	D	D	D	D	D	B	A	A		
Lard	D	B	B	A	B	B	A	A		

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Lavendar Oil	D	D	D	B	D	D	A	A		
Lead Acetate (Aqueous)	A	A	A	B	B	D	D	D		
Lead Nitrate (Aqueous)	A	A	A	A	A	B	A	A		
Lead Sulfamate (Aqueous)	B	A	A	B	A	B	A	A		
Ligroin (Benzine) (Nitrobenzine)	D	D	D	A	B	B	A	A		
Lime Bleach	A	A	A	A	B	B	A	A		
Lime Sulfur	D	A	A	D	A	A	A	A		
Lindol (Hydraulic Fluid)	D	A	A	D	D	C	B	A		
Linoleic Acid	D	D	D	B	D	B	B	A		
Linseed Oil	D	C	C	A	B	A	A	A		
Liquefied Petroleum Gas	D	D	D	A	B	C	A	A		
Lubricating Oils (Petroleum)	D	D	D	A	B	D	A	A		
Lye	B	A	A	B	B	B	B	A		
Magnesium Chloride (Aqueous)	A	A	A	A	A	A	A	A		
Magnesium Hydroxide (Aqueous)	B	A	A	B	A	*	A	A		
Magnesium Sulfate (Aqueous)	B	A	A	A	A	A	A	A		
Maleic Acid	C	B	B	D	C	*	A	A		
Malic Acid	C	B	B	D	C	*	D	C		
Mercury Chloride (Aqueous)	A	A	A	A	A	*	A	A		
Mercury	A	A	A	A	A	*	A	A		
Mesityl Oxide	D	B	B	D	D	D	D	D		
Methane	D	D	D	A	B	D	A	A		
Methyl Acetate	C	A	A	D	B	D	D	D		
Methyl Acrylate	D	B	B	D	B	D	D	D		
Methylacrylic Acid	D	B	B	D	B	D	D	D		
Methyl Alcohol	A	A	A	A	A	A	D	A		
Methyl Bromide	D	D	D	B	D	*	A	A		
Acetone)	D	A	A	D	D	C	D	D		
Methyl Cellosolve	D	B	B	C	C	D	D	D		
Methyl Chloride	D	C	C	D	D	D	B	A		
Methyl Cyclopentane	D	D	D	D	D	D	A	A		
Methylene Chloride	D	D	C	D	D	D	B	B		
Methyl Ether (Dimethyl Ether)	D	D	D	A	C	A	D	D		
Methyl Ethyl Ketone	D	B	A	D	C	D	D	D		
Methyl Formate	D	B	B	D	B	*	D	D		
Methyl Isobutyl Ketone	D	C	B	D	D	D	D	D		
Methyl Methacrylate	D	D	C	D	D	D	D	D		
Methyl Oleate	D	B	B	D	D	*	B	A		
Methyl Salicylate	C	B	B	D	D	*	B	A		
Milk	A	A	A	A	A	A	A	A		
Mineral Oil	D	C	C	A	B	B	A	A		
Monochlorobenzene	D	D	D	D	D	D	A	A		
Monomethyl Aniline	D	B	B	D	D	*	B	B		
Monoethanol Amine	B	B	A	D	D	B	D	D		
Monomethyl Ether (Methyl Ether)	D	D	D	A	C	A	D	D		
Monovinyl Acetylene	B	B	A	A	B	B	A	A		
Mustard Gas	A	A	A	*	A	A	A	A		
Naphtha	D	D	D	B	C	D	A	A		
Naphthalene	D	D	D	D	D	D	A	A		
Naphthalenic Acid	D	D	D	B	D	D	A	A		
Natural Gas	B	D	D	A	A	A	A	A		
Neats Foot Oil	D	B	B	A	D	B	A	A		
Neville Acid	D	B	B	D	D	D	A	A		
Nickel Acetate (Aqueous)	A	A	A	B	B	D	D	D		
Nickel Chloride (Aqueous)	A	A	A	A	A	A	A	A		
Nickel Sulfate (Aqueous)	B	A	A	A	A	A	A	A		
Niter Cake	A	A	A	A	A	A	A	A		
Nitric Acid (Conc.)	D	D	D	D	D	D	B	A		
Nitric Acid (Dilute)	D	B	B	D	B	B	A	A		
Nitric Acid-Red Fuming	D	D	D	D	D	D	C	B		
Nitrobenzene	D	A	A	D	D	D	B	A		
Nitrobenzene (Petroleum Ether)	D	D	D	A	B	D	A	A		

Samco Silicone Products

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Chemical	Natural Rubber	Butyl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Silicone (SI, VMQ)	Viton, Fluoroelastomer (FKM)	Viton B Fluoroelastomer (FKM)		
Nitroethane	B	B	B	D	C	D	D	D		
Nitrogen	A	A	A	A	A	A	A	A		
Nitrogen Tetroxide	D	C	C	D	D	D	D	D		
Nitromethane	B	B	B	D	B	D	D	D		
Octachlorotoluene	D	D	D	D	D	D	A	A		
Octadecane	D	D	D	A	B	D	A	A		
N-Octane	D	D	D	B	B	D	A	A		
Octyl Alcohol	B	C	C	B	A	B	A	A		
Oleic Acid	D	D	D	C	C	D	B	B		
Oleum Spirits	D	D	D	B	C	D	A	A		
Olive Oil	D	B	B	A	B	C	A	A		
O-Dichlorobenzene	D	D	D	D	D	D	A	A		
Oxalic Acid	B	A	A	B	B	B	A	A		
Oxygen-Cold	B	A	A	B	A	A	A	A		
Oxygen-(200-400oF)	D	D	C	D	D	B	B	A		
Ozone	D	B	A	D	C	A	A	A		
Paint Thinner, Duco	D	D	D	D	D	D	B	A		
Palmitic Acid	B	B	B	A	B	D	A	A		
Peanut Oil	D	C	C	A	C	A	A	A		
Perchloric Acid	D	B	B	D	B	D	A	A		
Perchloroethylene	D	D	D	B	D	D	A	A		
Petroleum-Below 250oF	D	D	D	A	B	B	A	A		
Petroleum-Above 250oF	D	D	D	D	B	D	B	A		
Phenol (Carbolic Acid)	D	B	B	D	C	D	A	A		
(Diphenyl)	D	D	D	D	D	D	A	A		
Phenyl Ethyl Ether	D	D	D	D	D	D	D	D		
Phenyl Hydrazine	A	B	B	D	D	*	B	A		
Acetone)	D	C	C	D	D	D	D	D		
Phosphoric Acid-20%	B	B	A	B	B	B	A	A		
Phosphoric Acid-45%	C	B	A	D	B	C	A	A		
Phosphorus Trichloride	D	A	A	D	D	*	A	A		
Pickling Solution	D	C	C	D	D	D	A	A		
Picric Acid	B	B	B	B	A	D	A	A		
Pinene	D	D	D	B	C	D	A	A		
Pine Oil	D	D	D	D	D	D	A	A		
Piperidine	D	D	D	D	D	D	D	D		
Plating Solution- Chrome	D	A	A	*	D	D	A	A		
Plating Solution- Others	D	A	A	A	D	D	A	A		
Polyvinyl Acetate Emulsion	B	A	A	*	B	*	*	*		
Potassium Acetate (Aqueous)	A	A	A	B	B	D	D	D		
Potassium Chloride (Aqueous)	A	A	A	A	A	A	A	A		
Potassium Cupro Cyanide	A	A	A	A	A	A	A	A		
Potassium Cyanide (Aqueous)	A	A	A	A	A	A	A	A		
Potassium Dichromate (Aqueous)	B	A	A	A	A	A	A	A		
Potassium Hydroxide (Aqueous)	B	A	A	A	A	A	A	A		
Potassium Nitrate (Aqueous)	A	A	A	A	A	A	A	A		
Potassium Sulfate (Aqueous)	B	A	A	A	A	A	A	A		
Producer Gas	D	D	D	A	B	B	A	A		
Propane	D	D	D	A	B	D	A	A		
i-Propyl Acetate	D	B	B	D	D	D	D	D		
n-Propyl Acetate	D	B	B	D	D	D	D	D		
Ketone)	D	A	A	D	D	C	D	D		
Propyl Alcohol	A	A	A	A	A	A	A	A		
Propyl Nitrate	D	B	B	D	D	D	D	D		
Propylene	D	D	D	D	D	D	A	A		
Propylene Oxide	D	B	B	D	D	D	D	D		
Pydraul, 10E, 29 ELT	D	A	A	D	D	D	A	A		
Pydraul, 30E, 50E, 65E, 90E	D	A	A	D	D	A	A	A		
Pydraul, 115E	D	A	A	D	D	D	A	A		
Pydraul, 230E, 312C, 540C	D	D	D	D	D	D	A	A		
Pyranol, Transformer Oil	D	D	D	A	B	D	A	A		
Pyridine	D	B	B	D	D	D	D	D		

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Pyroligneous Acid	D	B	B	D	B	*	D	D
Pyrrrole	C	D	C	D	D	B	D	D
Radiation	C	D	B	C	B	C	C	C
Rapeseed Oil	D	A	A	B	B	D	A	A
Red Oil (MIL-H-5606)	D	D	D	A	B	D	A	A
RJ-1 (MIL-F-25558 B)	D	D	D	A	B	D	A	A
RP-1 (MIL-F-25576 C)	D	D	D	A	B	D	A	A
Sal Ammoniac	A	A	A	A	A	B	A	A
Salicylic Acid	A	A	A	B	A	*	A	A
Salt Water	A	A	A	A	B	A	A	A
Sewage	B	B	B	A	B	B	A	A
Silicate Esters	D	D	D	B	A	D	A	A
Silicone Greases	A	A	A	A	A	C	A	A
Silicone Oils	A	A	A	A	A	C	A	A
Silver Nitrate	A	A	A	B	A	A	A	A
Skydrol 500	D	B	A	D	D	C	D	D
Skydrol 7000	D	A	A	D	D	C	B	A
Soap Solutions	B	A	A	A	B	A	A	A
Soda Ash	A	A	A	A	A	A	A	A
Sodium Acetate (Aqueous)	A	A	A	B	B	D	D	D
(Baking Soda)	A	A	A	A	A	A	A	A
Sodium Bisulfite (Aqueous)	A	A	A	A	A	A	A	A
Sodium Borate (Aqueous)	A	A	A	A	A	A	A	A
Sodium Chloride (Aqueous)	A	A	A	A	A	A	A	A
Sodium Cyanide (Aqueous)	A	A	A	A	A	A	A	A
Sodium Hydroxide (Aqueous)	A	A	A	B	A	B	B	A
(Chlorox)	D	B	B	B	A	B	A	A
Sodium Metaphosphate (Aqueous)	A	A	A	A	B	*	A	A
Sodium Nitrate (Aqueous)	B	A	A	B	B	D	A	A
Sodium Perborate (Aqueous)	B	A	A	B	B	B	A	A
Sodium Peroxide (Aqueous)	B	A	A	B	B	D	B	A
Sodium Phosphate (Aqueous)	A	A	A	A	B	D	A	A
Sodium Silicate (Aqueous)	A	A	A	A	A	*	A	A
Sodium Sulfate (Aqueous)	B	A	A	A	A	A	A	A
Sodium Thiosulfate (Aqueous)	B	A	A	B	A	A	A	A
Soybean Oil	D	C	C	A	B	A	A	A
Stannic Chloride (Aqueous)	A	A	A	A	B	B	A	A
Stannous Chloride (Aqueous)	A	A	A	A	A	B	A	A
Steam Under 300oF	D	B	A	D	C	C	D	B
Steam Over 300oF	D	D	C	D	D	D	D	D
Stearic Acid	B	B	B	B	B	B	A	A
Stoddard Solvent	D	D	D	A	B	D	A	A
Styrene	D	D	D	D	D	D	B	A
Sucrose Solution	A	A	A	A	B	A	A	A
Sulfite Liquors	B	B	B	B	B	D	A	A
Sulfur	D	A	A	D	A	C	A	A
Sulfur Chloride (Aqueous)	D	D	D	C	C	C	A	A
Sulfur Dioxide (Dry)	B	B	A	D	D	B	B	A
Sulfur Dioxide (Wet)	D	A	A	D	B	B	B	A
Pressure)	D	B	A	D	D	B	B	A
Sulfur Hexafluoride	D	A	A	B	A	B	A	A
Sulfur Trioxide	B	B	B	D	D	B	A	A
Sulfuric Acid (Dilute)	C	B	B	C	B	D	A	A
Sulfuric Acid (conc.)	D	D	C	D	D	D	A	A
Sulfuric Acid (20% Oleum)	D	D	D	D	D	D	A	A
Sulfurous Acid	B	B	B	B	B	D	C	B
Tannic Acid	A	A	A	A	A	B	A	A
Tar, Bituminous	D	C	C	B	C	B	A	A
Tartaric Acid	C	B	B	A	B	A	A	A
Terpineol	D	C	C	B	D	*	A	A
Tertiary Butyl Alcohol	B	B	B	B	B	B	A	A
Tertiary Butyl Catechol	D	B	B	D	B	*	A	A

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Tertiary Butyl Mercaptan	D	D	D	D	D	D	A	A		
Tetrabromoethane	D	D	D	D	D	D	A	A		
Tetrabromomethane	D	D	D	D	D	D	A	A		
Tetrabutyl Titanate	B	B	A	B	B	*	A	A		
Tetrachloroethylene	D	D	D	D	D	D	A	A		
Tetrahydrofuran	D	C	C	D	D	D	D	D		
Tetralin	D	D	D	D	D	D	B	A		
Thionyl Chloride	D	D	C	D	D	*	B	A		
Titanium Tetrachloride	D	D	D	B	D	D	A	A		
Toluene	D	D	D	D	D	D	B	A		
Toluene Diisocyanate	D	B	B	D	D	D	D	C		
Transformer Oil	D	D	D	A	B	B	A	A		
Transmission Fluid Type A	D	D	D	A	B	B	A	A		
Triacetin	B	A	A	B	B	*	D	C		
Triaryl Phosphate	D	A	A	D	D	C	A	A		
Tributoxy Ethyl Phosphate	B	A	A	D	D	*	A	A		
Tributyl Mercaptan	D	D	D	D	D	D	A	A		
Tributyl Phosphate	B	B	B	D	D	D	D	D		
Trichloroacetic Acid	C	B	B	B	D	*	D	C		
Trichloroethane	D	D	D	D	D	D	A	A		
Trichloroethylene	D	D	D	D	D	D	A	A		
Tricresyl Phosphate	D	A	D	D	C	C	A	A		
Trethanol Amine	B	B	A	B	A	*	D	D		
Triethyl Aluminum	D	C	C	D	D	*	B	A		
Triethyl Borane	D	C	C	D	D	*	A	A		
Trinitrotoluene	D	D	D	D	B	*	B	A		
Trioctyl Phosphate	D	A	A	D	D	C	B	A		
Tung Oil (China Wood Oil)	D	C	C	A	B	D	A	A		
Turbine Oil	D	D	D	B	D	D	A	A		
Turpentine	D	D	D	A	D	D	A	A		
Usymmetrical Dimethyl Hydrazine	A	A	A	B	B	D	D	D		
Varnish	D	D	D	B	D	D	A	A		
Vegetable Oils	D	C	C	A	C	B	A	A		
Versilube F-50	A	A	A	A	A	C	A	A		
Vinegar	B	A	A	B	B	A	A	A		
Vinyl Chloride	D	D	D	D	D	*	A	A		
Wagner 21B Brake Fluid	B	B	A	C	B	C	D	C		
Water	A	A	A	A	A	A	A	A		
Whiskey, Wines	A	A	A	A	A	A	A	A		
White Pine Oil	D	D	D	B	D	D	A	A		
White Oil	D	D	D	A	B	D	A	A		
Wood Oil	D	D	D	A	B	D	A	A		
Xylene	D	D	D	D	D	D	A	A		
Xylidine (Di-methyl Aniline)	C	C	B	C	C	D	D	C		
Zeolites	A	A	A	A	A	*	A	A		
Zinc Acetate (Aqueous)	A	A	A	B	B	D	D	D		
Zinc Chloride (Aqueous)	A	A	A	A	A	A	A	A		
Zinc Sulfate (Aqueous)	B	A	A	A	A	A	A	A		