

Silmart — Silicone (SI, VMQ) Chemical Resistance

A - Silicone is suitable (No significant effect)

B - Minor to Moderate effect on silicone

C - Moderate to Severe effect on silicone

D - Severe effect - Not Recommended

*** - Insufficient Data**

Chemical	Silicone (SI, VMQ)
Acetaldehyde	B
Acetamide	B
Acetic Acid, Glacial	B
Acetic Acid, 30%	A
Acetic Anhydride	C
Acetone	C
Acetophenone	D
Acetyl Chloride	C
Acetylene	B
Acrylonitrile	D
Adipic Acid	*
Alkazene (Dibromoethylbenzene)	D
Alum-NH3-Cr-K (Aqueous)	A
Aluminum Acetate (Aqueous)	D
Aluminum Chloride (Aqueous)	B
Aluminum Fluoride (Aqueous)	B
Aluminum Nitrate (Aqueous)	B
Aluminum Phosphate (Aqueous)	A
Aluminum Sulfate (Aqueous)	A
Ammonia Anhydrous	C
Ammonia Gas (cold)	A
Ammonia Gas (hot)	A
Ammonium Carbonate (Aqueous)	*
Ammonium Chloride (Aqueous)	*
Ammonium Hydroxide (conc.)	A
Ammonium Nitrate (Aqueous)	*
Ammonium Nitrite (Aqueous)	B
Ammonium Persulfate (Aqueous)	*
Ammonium Phosphate (Aqueous)	A
Ammonium Sulfate (Aqueous)	*
Amyl Acetate (Banana Oil)	D
Amyl Alcohol	D
Amyl Borate	*
Amyl Chloronaphthalene	D
Amyl Napthalene	D
Aniline	D
Aniline Dyes	C
Aniline Hydrochloride	D
Animal Fats	B
Ansul Ether (Anesthetics)	D
Aqua Regia	D
Aroclor, 1248	B
Aroclor, 1254	C

Chemical	Silicone (SI, VMQ)
Aroclor, 1260	B
Arsenic Acid	A
Arsenic Trichloride (Aqueous)	*
Askarel	D
Asphalt	D
Banana Oil (Amyl Acetate)	D
Barium Chloride (Aqueous)	A
Barium Hydroxide (Aqueous)	A
Barium Sulfate (Aqueous)	A
Barium Sulfide (Aqueous)	A
Beer	A
Beet Sugar Liquors	A
Benzaldehyde	B
Benzene	D
Benzene Sulfonic Acid (Nitrobenzine) (Pet Ether)	D
Benzine (Ligroin)	D
Benzoic Acid	C
Benzoyl Chloride	*
Benzyl Alcohol	B
Benzyl Benzoate	*
Benzyl Chloride	D
Biphenyl (Diphenyl) (Phenylbenzene)	D
Blast Furnace Gas	A
Bleach Solutions	B
Borax	B
Bordeaux Mixture	B
Brine	A
Bromine-Anydrous	D
Bromine Trifluoride	D
Bromine Water	D
Bromobenzene	D
Bunker Oil	B
Butadiene	D
Butter (Animal Fat)	B
Butyl Acetate	D
Butyl Acetate Ricinoleate	*
Butyl Acrylate	*
Butyl Alcohol	B
Butyl Amine	D
Butyl Benzoate	*
Butyl Carbitol	D
Butyl Cellosolve	*
Butyl Oleate	*
Butyl Stearate	*
Butylene	D
Butyraldehyde	D
Calcium Acetate (Aqueous)	D
Calcium Bisulfite (Aqueous)	A
Calcium Chloride (Aqueous)	A
Calcium Hydroxide (Aqueous)	A
Calcium Hypochlorite (Aqueous)	B
Calcium Nitrate (Aqueous)	B

Chemical	Silicone (SI, VMQ)
Calcium Sulfide (Aqueous)	B
Cane Sugar Liquors	A
Carbamate	*
Carbitol	B
Carbolic Acid (Phenol)	D
Carbon Bisulfide	D
Carbon Dioxide	B
Carbonic Acid	A
Carbon Monoxide	A
Carbon Tetrachloride	D
Castor Oil	A
Cellosolve	D
Cellosolve Acetate	D
Cellulube (Fryquel)	A
China Wood Oil (Tung Oil)	D
Chlorine (Dry)	D
Chlorine (Wet)	D
Chlorine Dioxide	*
Chlorine Trifluoride	D
Chloroacetic Acid	*
Chloroacetone	D
Cholorobenzene	D
Chlorobromomethane	D
Chlorobutadiene	D
Chlorododecane	D
Chloroform	D
O-Chloronapthalene	D
1-Chloro-1-Nitro Ethane	D
Chlorosulfonic Acid	D
Chlorotoluene	D
Chlorox (Sodium Hypochlorite NaOCl)	B
Chrome Plating Solutions	B
Chromic Acid	C
Citric Acid	A
Coal Tar (Creosote)	D
Cobalt Chloride (Aqueous)	B
Cocoanut Oil	A
Cod Liver Oil	B
Coke Oven Gas	B
Copper Acetate (Aqueous)	D
Copper Chloride (Aqueous)	A
Copper Cyanide (Aqueous)	A
Copper Sulfate (Aqueous)	A
Corn Oil	A
Cottonseed Oil	A
Creosote (Coal Tar)	D
Cresol	D
Cresylic Acid	D
Cumene	D
Cyclohexane	D
Cyclohexanol	D
Cyclohexanone	D

Chemical	Silicone (SI, VMQ)
P-Cymene	D
Decalin	D
Decane	B
Denatured Alcohol	A
Detergent Solutions	A
Developing Fluids	A
Diacetone	D
Diacetone Alcohol	B
Dibenzyl Ether	*
Dibenzyl Sebecate	C
Dibromoethylbenzene	D
Dibutyl Amine	C
Dibutyl Ether	D
Dibutyl Phthalate	B
Dibutyl Sebecate	B
O-Dichlorobenzene	D
Dichloro-Isopropyl Ether	D
Dicyclohexylamine	*
Diesel Oil	D
Diethylamine	B
Diethyl Benzene	D
Diethyl Ether	D
Diethylene Glycol	B
Diethyl Sebecate	B
Diisobutylene	D
Diisopropyl Benzene	*
Diisopropyl Ketone	D
Diisopropylidene Acetone (Phorone)	D
Dimethyl Aniline (Xylidine)	D
Dimethyl Ether (Methyl Ether)	A
Dimethyl Formamide	B
Dimethyl Phthalate	*
Dinitrotoluene	D
Dioctyl Phtalate	C
Dioctyl Sebecate	C
Dioxane	D
Dioxolane	D
Dipentene	D
Diphenyl (Biphenyl) (Phenylbenzene)	D
Diphenyl Oxides	C
Dowtherm Oil	C
Dry Cleaning Fluids	D
Epichlorohydrin	D
Ethane	D
Ethanolamine	B
Ethyl Acetate	B
Ethyl Acetoacetate	B
Ethyl Acrylate	B
Ethyl Alcohol	A
Ethyl Benzene	D
Ethyl Benzoate	D
Ethyl Cellosolve	D

Chemical	Silicone (SI, VMQ)
Ethyl Cellulose	C
Ethyl Chloride	D
Ethyl Chlorocarbonate	D
Ethyl Chloroformate	D
Ethyl Ether	D
Ethyl Formate	*
Ethyl Mercaptan	C
Ethyl Oxalate	D
Ethyl Pentachlorobenzene	D
Ethyl Silicate	*
Ethylene	*
Ethylene Chloride	D
Ethylene Chlorohydrin	C
Ethylene Diamine	A
Ethylene Dichloride	D
Ethylene Glycol	A
Ethylene Oxide	D
Ethylene Trichloride	D
Fatty Acids	C
Ferric Chloride (Aqueous)	B
Ferric Nitrate (Aqueous)	C
Ferric Sulfate (Aqueous)	B
Fish Oil	A
Fluorinated Cyclic Ethers	*
Fluorine (Liquid)	D
Fluorobenzene	D
Fluoroboric Acid	*
Fluorocarbon Oils	*
Fluorolube	A
Fluorosilicic Acid (Hydrofluosilicic Acid)	D
Formaldehyde (RT)	B
Formic Acid	B
Freon 11	D
Freon 12	D
Freon 13	D
Freon 21	D
Freon 22	D
Freon 31	*
Freon 32	*
Freon 112	D
Freon 113	D
Freon 114	D
Freon 115	*
Freon 142b	*
Freon 152b	*
Freon 218	*
Freon C316	*
Freon C318	*
Freon 13B1	D
Freon 114B2	D
Freon 502	*
Freon TF	D

Chemical	Silicone (SI, VMQ)
Freon T-WD602	D
Freon TMC	C
Freon T-P35	A
Freon TA	C
Freon TC	D
Freon MF	D
Freon BF	D
Fuel Oil	D
Fumaric Acid	B
Furan, Furfuran	*
Furfural	D
Fyquel (Cellulube)	A
Gallic Acid	*
Gasoline	D
Gelatin	A
Glauber's Salt (Aqueous)	*
Glucose	A
Glue	A
Glycerin	A
Glycols	A
Green Sulfate Liquor	A
Halowax Oil	D
N-Hexaldehyde	B
Hexane	D
N-Hexene-1	D
Hexyl Alcohol	B
Hydrazine	C
Hydraulic Oil (Petroleum)	C
Hydrobromic Acid	D
Hydrobromic Acid 40%	D
Hydrochloric Acid (Cold) 37%	C
Hydrochloric Acid (Hot) 37%	D
Hydrocyanic Acid	C
Hydrofluoric Acid (Conc.) Cold	D
Hydrofluoric Acid (Conc.) Hot	D
Hydrofluoric Acid- Anhydrous	D
Hydrofluosilicic Acid (Fluosilicic Acid)	D
Hydrogen Gas	C
Hydrogen Peroxide (90%)	B
Hydrogen Sulfide (Wet) Cold	C
Hydrogen Sulfide (Wet) Hot	C
Hydroquinone	*
Hypochlorous Acid	*
Iodine Pentafluoride	D
Iodoform	*
Isobutyl Alcohol	A
Isooctane	D
Isophorone	D
Isopropyl Acetate	D
Isopropyl Alcohol	A
Isopropyl Chloride	D
Isopropyl Ether	D

Chemical	Silicone (SI, VMQ)
Kerosene	D
Lacquers	D
Lacquer Solvents	D
Lactic Acid (Cold)	A
Lactic Acid (Hot)	B
Lard	B
Lavendar Oil	D
Lead Acetate (Aqueous)	D
Lead Nitrate (Aqueous)	B
Lead Sulfamate (Aqueous)	B
Ligroin (Benzine) (Nitrobenzine)	B
Lime Bleach	B
Lime Sulfur	A
Lindol (Hydraulic Fluid)	C
Linoleic Acid	B
Linseed Oil	A
Liquefied Petroleum Gas	C
Lubricating Oils (Petroleum)	D
Lye	B
Magnesium Chloride (Aqueous)	A
Magnesium Hydroxide (Aqueous)	*
Magnesium Sulfate (Aqueous)	A
Maleic Acid	*
Malic Acid	*
Mercury Chloride (Aqueous)	*
Mercury	*
Mesityl Oxide	D
Methane	D
Methyl Acetate	D
Methyl Acrylate	D
Methylacrylic Acid	D
Methyl Alcohol	A
Methyl Bromide	*
Methyl Butyl Ketone (Propyl Acetone)	C
Methyl Cellosolve	D
Methyl Chloride	D
Methyl Cyclopentane	D
Methylene Chloride	D
Methyl Ether (Dimethyl Ether)	A
Methyl Ethyl Ketone	D
Methyl Formate	*
Methyl Isobutyl Ketone	D
Methyl Methacrylate	D
Methyl Oleate	*
Methyl Salicylate	*
Milk	A
Mineral Oil	B
Monochlorobenzene	D
Monomethyl Aniline	*
Monoethanol Amine	B
Monomethyl Ether (Methyl Ether)	A
Monovinyl Acetylene	B

Chemical	Silicone (SI, VMQ)
Mustard Gas	A
Naphtha	D
Naphthalene	D
Naphthalenic Acid	D
Natural Gas	A
Neats Foot Oil	B
Neville Acid	D
Nickel Acetate (Aqueous)	D
Nickel Chloride (Aqueous)	A
Nickel Sulfate (Aqueous)	A
Niter Cake	A
Nitric Acid (Conc.)	D
Nitric Acid (Dilute)	B
Nitric Acid-Red Fuming	D
Nitrobenzene	D
Nitrobenzene (Petroleum Ether)	D
Nitroethane	D
Nitrogen	A
Nitrogen Tetroxide	D
Nitromethane	D
Octachlorotoluene	D
Octadecane	D
N-Octane	D
Octyl Alcohol	B
Oleic Acid	D
Oleum Spirits	D
Olive Oil	C
Oxalic Acid	B
Oxygen-Cold	A
Oxygen-(200-400oF)	B
Ozone	A
Paint Thinner, Duco	D
Palmitic Acid	D
Peanut Oil	A
Perchloric Acid	D
Perchloroethylene	D
Petroleum-Below 250oF	B
Petroleum-Above 250oF	D
Phenol (Carbolic Acid)	D
Phenylbenzene (Biphenyl) (Diphenyl)	D
Phenyl Ethyl Ether	D
Phenyl Hydrazine	*
Phorone (Diisopropylidene Acetone)	D
Phosphoric Acid-20%	B
Phosphoric Acid-45%	C
Phosphorus Trichloride	*
Pickling Solution	D
Picric Acid	D
Pinene	D
Pine Oil	D
Piperidine	D
Plating Solution- Chrome	D

Chemical	Silicone (SI, VMQ)
Plating Solution- Others	D
Polyvinyl Acetate Emulsion	*
Potassium Acetate (Aqueous)	D
Potassium Chloride (Aqueous)	A
Potassium Cupro Cyanide	A
Potassium Cyanide (Aqueous)	A
Potassium Dichromate (Aqueous)	A
Potassium Hydroxide (Aqueous)	A
Potassium Nitrate (Aqueous)	A
Potassium Sulfate (Aqueous)	A
Producer Gas	B
Propane	D
i-Propyl Acetate	D
n-Propyl Acetate	D
Propyl Acetone (Methyl Butyl Ketone)	C
Propyl Alcohol	A
Propyl Nitrate	D
Propylene	D
Propylene Oxide	D
Pydraul, 10E, 29 ELT	D
Pydraul, 30E, 50E, 65E, 90E	A
Pydraul, 115E	D
Pydraul, 230E, 312C, 540C	D
Pyranol, Transformer Oil	D
Pyridine	D
Pyroligneous Acid	*
Pyrrole	B
Radiation	C
Rapeseed Oil	D
Red Oil (MIL-H-5606)	D
RJ-1 (MIL-F-25558 B)	D
RP-1 (MIL-F-25576 C)	D
Sal Ammoniac	B
Salicylic Acid	*
Salt Water	A
Sewage	B
Silicate Esters	D
Silicone Greases	C
Silicone Oils	C
Silver Nitrate	A
Skydrol 500	C
Skydrol 7000	C
Soap Solutions	A
Soda Ash	A
Sodium Acetate (Aqueous)	D
Sodium Bicarbonate (Aqueous)(Baking Soda)	A
Sodium Bisulfite (Aqueous)	A
Sodium Borate (Aqueous)	A
Sodium Chloride (Aqueous)	A
Sodium Cyanide (Aqueous)	A
Sodium Hydroxide (Aqueous)	B
Sodium Hypochlorite (Aqueous) (Chlorox)	B

Chemical	Silicone (SI, VMQ)
Sodium Metaphosphate (Aqueous)	*
Sodium Nitrate (Aqueous)	D
Sodium Perborate (Aqueous)	B
Sodium Peroxide (Aqueous)	D
Sodium Phosphate (Aqueous)	D
Sodium Silicate (Aqueous)	*
Sodium Sulfate (Aqueous)	A
Sodium Thiosulfate (Aqueous)	A
Soybean Oil	A
Stannic Chloride (Aqueous)	B
Stannous Chloride (Aqueous)	B
Steam Under 300oF	C
Steam Over 300oF	D
Stearic Acid	B
Stoddard Solvent	D
Styrene	D
Sucrose Solution	A
Sulfite Liquors	D
Sulfur	C
Sulfur Chloride (Aqueous)	C
Sulfur Dioxide (Dry)	B
Sulfur Dioxide (Wet)	B
Sulfur Dioxide (Liquified Under Pressure)	B
Sulfur Hexafluoride	B
Sulfur Trioxide	B
Sulfuric Acid (Dilute)	D
Sulfuric Acid (conc.)	D
Sulfuric Acid (20% Oleum)	D
Sulfurous Acid	D
Tannic Acid	B
Tar, Bituminous	B
Tartaric Acid	A
Terpineol	*
Tertiary Butyl Alcohol	B
Tertiary Butyl Catechol	*
Tertiary Butyl Mercaptan	D
Tetrabromoethane	D
Tetrabromomethane	D
Tetrabutyl Titanate	*
Tetrachloroethylene	D
Tetrahydrofuran	D
Tetralin	D
Thionyl Chloride	*
Titanium Tetrachloride	D
Toluene	D
Toluene Diisocyanate	D
Transformer Oil	B
Transmission Fluid Type A	B
Triacetin	*
Triaryl Phosphate	C
Tributoxy Ethyl Phosphate	*
Tributyl Mercaptan	D

Chemical	Silicone (SI, VMQ)
Tributyl Phosphate	D
Trichloroacetic Acid	*
Trichloroethane	D
Trichloroethylene	D
Tricresyl Phosphate	C
Trethanol Amine	*
Triethyl Aluminum	*
Triethyl Borane	*
Trinitrotoluene	*
Trioctyl Phosphate	C
Tung Oil (China Wood Oil)	D
Turbine Oil	D
Turpentine	D
Usymmetrical Dimethyl Hydrazine	D
Varnish	D
Vegetable Oils	B
Versilube F-50	C
Vinegar	A
Vinyl Chloride	*
Wagner 21B Brake Fluid	C
Water	A
Whiskey, Wines	A
White Pine Oil	D
White Oil	D
Wood Oil	D
Xylene	D
Xylidine (Di-methyl Aniline)	D
Zeolites	*
Zinc Acetate (Aqueous)	D
Zinc Chloride (Aqueous)	A
Zinc Sulfate (Aqueous)	A