

Silicone Rubber Chemical Resistance Chart

	Silicone Rubber
Chemical Designations (ASTM D1418-1, ISO/DIN 1629, etc.)	SI, MQ, VMQ, PMQ
ASTM D2000 Elastomer Group	FE, GE
E(xcellent)=Minor Effect; G(ood)=Moderate Effect; F(air)=Static Applications Only; P(oor)=Not Recommended; na=Information Not Available;	
1-Chloro-1-Nitro Ethane	P
51-F-23	F
Acetaldehyde	G
Acetamide	G
Acetic Acid, 30%	E
Acetic Acid, Glacial	G
Acetic Anhydride	F
Acetone	F
Acetophenone	P
Acetyl Chloride	F
Acetylene	G
Acrylonitrile	P
Adipic Acid	na
Alkazene (Dibromoethylbenzene)	P
Aluminum Acetate (aq)	P
Aluminum Chloride (aq)	G
Aluminum Fluoride (aq)	G
Aluminum Nitrate (aq)	G
Aluminum Phosphate (aq)	E
Aluminum Sulfate (aq)	E
Alum-NH3-Cr-K (aq)	E
Ammonia Anhydrous	F
Ammonia Gas (cold)	E
Ammonia Gas (hot)	E
Ammonium Carbonate (aq)	na
Ammonium Chloride (aq)	na
Ammonium Hydroxide (conc.)	E
Ammonium Nitrate (aq)	na
Ammonium Nitrite (aq)	G
Ammonium Persulfate (aq)	na
Ammonium Phosphate (aq)	E
Ammonium Sulfate (aq)	na
Amyl Acetate (Banana Oil)	P
Amyl Alcohol	P

Amyl Borate	na
Amyl Chloronapthalene	P
Amyl Napthalene	P
Aniline	P
Aniline Dyes	F
Aniline Hydrochloride	P
Animal Fats	G
Ansul Ether (Anesthetics)	P
Aqua Regia	P
Aroclor, 1248	G
Aroclor, 1254	F
Aroclor, 1260	G
Arsenic Acid	E
Arsenic Trichloride (aq)	na
Askarel	P
Asphalt	P
ASTM #1 Method D-471	F
ASTM #2 Method D-471	F
ASTM #3 Method D-471	F
Banana Oil (Amyl Acetate)	P
Barium Chloride (aq)	E
Barium Hydroxide (aq)	E
Barium Sulfate (aq)	E
Barium Sulfide (aq)	E
Beer	E
Beet Sugar Liquors	E
Benzaldehyde	G
Benzene	P
Benzene Sulfonic Acid	P
Benzine (Ligroin) (Nitrobenzine) (Pet Ether)	P
Benzoic Acid	F
Benzoyl Chloride	na
Benzyl Alcohol	G
Benzyl Benzoate	na
Benzyl Chloride	P
Biphenyl (Diphenyl) (Phenylbenzene)	P
Blast Furnace Gas	E
Bleach Solutions	G
Borax	G
Bordeaux Mixture	G
Boric Acid	E
Brine	E
Bromine Trifluoride	P
Bromine Water	P
Bromine-Anhydrous	P
Bromobenzene	P
Bunker Oil	G
Butadiene	P
Butane	P

Butter (Animal Fat)	G
Butyl Acetate	P
Butyl Acetyl Ricinoleate	na
Butyl Acrylate	na
Butyl Alcohol	G
Butyl Amine	P
Butyl Benzoate	na
Butyl Carbitol	P
Butyl Cellosolve	na
Butyl Oleate	na
Butyl Stearate	na
Butylene	P
Butyraldehyde	P
Calcium Hypochlorite (aq)	G
Calcium Acetate (aq)	P
Calcium Bisulfite (aq)	E
Calcium Chloride (aq)	E
Calcium Hydroxide (aq)	E
Calcium Nitrate (aq)	G
Calcium Sulfide (aq)	G
Cane Sugar Liquors	E
Carbamate	na
Carbitol	G
Carbolic Acid (Phenol)	P
Carbon Bisulfide	P
Carbon Dioxide	G
Carbon Monoxide	E
Carbon Tetrachloride	P
Carbonic Acid	E
Castor Oil	E
Cellosolve	P
Cellosolve Acetate	P
Cellulube (Fryquel)	E
China Wood Oil (Tung Oil)	P
Chlorine (Dry)	P
Chlorine (Wet)	P
Chlorine Dioxide	na
Chlorine Trifluoride	P
Chloroacetic Acid	na
Chloroacetone	P
Chlorobenzene	P
Chlorobromomethane	P
Chlorobutadiene	P
Chlorododecane	P
Chloroform	P
Chlorosulfonic Acid	P
Chlorotoluene	P
Chlorox (Sodium Hypochlorite NaOC1)	G
Chrome Plating Solutions	G

Chromic Acid	F
Citric Acid	E
Coal Tar (Creosote)	P
Cobalt Chloride (aq)	G
Cocoonut Oil	E
Cod Liver Oil	G
Coke Oven Gas	G
Copper Acetate (aq)	P
Copper Chloride (aq)	E
Copper Cyanide (aq)	E
Copper Sulfate (aq)	E
Corn Oil	E
Cottonseed Oil	E
Creosote (Coal Tar)	P
Cresol	P
Cresylic Acid	P
Cumene	P
Cyclohexane	P
Cyclohexanol	P
Cyclohexanone	P
Decalin	P
Decane	G
Denatured Alcohol	E
Detergent Solutions	E
Developing Fluids	E
Diacetone	P
Diacetone Alcohol	G
Dibenzyl Ether	na
Dibenzyl Sebecate	F
Dibromoethylbenzene (Alkazene)	P
Dibutyl Amine	F
Dibutyl Ether	P
Dibutyl Phthalate	G
Dibutyl Sebecate	G
Dichloro-Isopropyl Ether	P
Dicyclohexylamine	
Diesel Oil	P
Diethyl Benzene	P
Diethyl Ether	P
Diethyl Sebecate	G
Diethylamine	G
Diethylene Glycol	G
Diisobutylene	P
Diisopropyl Benzene	na
Diisopropyl Ketone	P
Diisopropylidene Acetone (Phorone)	P
Dimethyl Aniline (Xylidine)	P
Dimethyl Ether (Methyl Ether) (Monomethyl Ether)	E
Dimethyl Formamide	G

Dimethyl Phthalate	na
Dinitrotoluene	P
Diocetyl Phtalate	F
Diocetyl Sebecate	F
Dioxane	P
Dioxolane	P
Dipentene	P
Diphenyl (Biphenyl) (Phenylbenzene)	P
Diphenyl Oxides	F
Dowtherm Oil	F
Dry Cleaning Fluids	P
Epichlorohydrin	P
Ethane	P
Ethanolamine	G
Ethyl Chloroformate	P
Ethyl Acetate	G
Ethyl Acetoacetate	G
Ethyl Acrylate	G
Ethyl Alcohol	E
Ethyl Benzene	P
Ethyl Benzoate	P
Ethyl Cellosolve	P
Ethyl Cellulose	F
Ethyl Chloride	P
Ethyl Chlorocarbonate	P
Ethyl Ether	P
Ethyl Formate	na
Ethyl Mercaptan	F
Ethyl Oxalate	P
Ethyl Pentachlorobenzene	P
Ethyl Silicate	na
Ethylene	na
Ethylene Chloride	P
Ethylene Chlorohydrin	F
Ethylene Diamine	E
Ethylene Dichloride	P
Ethylene Glycol	E
Ethylene Oxide	P
Ethylene Trichloride	P
Fatty Acids	F
Ferric Chloride (aq)	G
Ferric Nitrate (aq)	F
Ferric Sulfate (aq)	G
Fish Oil	E
Fluorinated Cyclic Ethers	na
Fluorine (Liquid)	P
Fluorobenzene	P
Fluoroboric Acid	na
Fluorocarbon Oils	na

Fluorolube	E
Fluorosilicic Acid (Hydrofluosilicic Acid)	P
Formaldehyde (RT)	G
Formic Acid	G
Freon 11	P
Freon 112	P
Freon 113	P
Freon 114	P
Freon 114B2	P
Freon 115	na
Freon 12	P
Freon 13	P
Freon 13B1	P
Freon 142b	na
Freon 152a	na
Freon 21	P
Freon 218	na
Freon 22	P
Freon 31	na
Freon 32	na
Freon 502	na
Freon BF	P
Freon C316	na
Freon C318	na
Freon MF	P
Freon TA	F
Freon TC	P
Freon TF	P
Freon TMC	F
Freon T-P35	E
Freon T-WD602	P
Fuel Oil	P
Fumaric Acid	G
Furan, Furfuran	na
Furfural	P
Fyrquel (Cellulube)	E
Gallic Acid	na
Gasoline	P
Gelatin	E
Glauber's Salt (aq)	na
Glucose	E
Glue	E
Glycerin	E
Glycols	E
Green Sulfate Liquor	E
Halowax Oil	P
Hexane	P
Hexyl Alcohol	G
Hydraulic Oil (Petroleum)	F

Hydrazine	F
Hydrobromic Acid	P
Hydrobromic Acid 40%	P
Hydrochloric Acid (Cold) 37%	F
Hydrochloric Acid (Hot) 37%	P
Hydrocyanic Acid	F
Hydrofluoric Acid (Conc.) Cold	P
Hydrofluoric Acid (Conc.) Hot	P
Hydrofluoric Acid-Anhydrous	P
Hydrofluosilicic Acid (Fluosilicic Acid)	P
Hydrogen Gas	F
Hydrogen Peroxide (90%)	G
Hydrogen Sulfide (Wet) Cold	F
Hydrogen Sulfide (Wet) Hot	F
Hydroquinone	na
Hypochlorous Acid	na
Iodine Pentafluoride	P
Iodoform	na
i-Propyl Acetate	P
Isobutyl Alcohol	E
Isooctane	P
Isophorone	P
Isopropyl Acetate	P
Isopropyl Alcohol	E
Isopropyl Chloride	P
Isopropyl Ether	P
Kerosene	P
Lacquer Solvents	P
Lacquers	P
Lactic Acid (Cold)	E
Lactic Acid (Hot)	G
Lard	G
Lavender Oil	P
Lead Acetate (aq)	P
Lead Nitrate (aq)	G
Lead Sulfamate (aq)	G
Ligroin (Benzine) (Nitrobenzine) (Pet Ether)	P
Lime Bleach	G
Lime Sulfur	E
Lindol (Hydraulic Fluid)	F
Linoleic Acid	G
Linseed Oil	E
Liquefied Petroleum Gas	F
Lubricating Oils (Petroleum)	P
Lye	G
Magnesium Chloride (aq)	E
Magnesium Hydroxide (aq)	na
Magnesium Sulfate (aq)	E
Maleic Acid	na

Maleic Anhydride	na
Malic Acid	G
Mercury	na
Mercury Chloride (aq)	na
Mesityl Oxide	P
Methane	P
Methyl Acetate	P
Methyl Acrylate	P
Methyl Alcohol	E
Methyl Bromide	na
Methyl Butyl Ketone (Propyl Acetone)	F
Methyl Cellosolve	P
Methyl Chloride	P
Methyl Cyclopentane	P
Methyl Ether (Dimethyl Ether) (Monomethyl Ether)	E
Methyl Ethyl Ketone	P
Methyl Formate	na
Methyl Isobutyl Ketone	P
Methyl Methacrylate	P
Methyl Oleate	na
Methyl Salicylate	na
Methylacrylic Acid	P
Methylene Chloride	P
MIL-1-8660 B	P
MIL-A-8243 B	G
MIL-C-4339 C	F
MIL-C-5545 A	P
MIL-C-6529 C	P
MIL-C-8188 C	F
MIL-F-16929 A	F
MIL-F-16958 A	F
MIL-F-17111	F
MIL-F-19605	P
MIL-F-25172	P
MIL-F-25524 A	P
MIL-F-25558 B (RJ-1)	F
MIL-F-25576 C (RP-1)	P
MIL-F-25656 B	P
MIL-F-5566	E
MIL-F-5602	F
MIL-F-7024 A	P
MIL-G-10924 B	F
MIL-G-15793	F
MIL-G-18709 A	F
MIL-G-2108	F
MIL-G-23827 A	F
MIL-G-25013 D	P
MIL-G-25537 A	F
MIL-G-25760 A	P

MIL-G-27343	P
MIL-G-27617	P
MIL-G-4343 B	P
MIL-G-7118 A	F
MIL-G-7187	F
MIL-G-7421 A	F
MIL-G-7711 A	F
MIL-H-13862	F
MIL-H-13866 A	F
MIL-H-13910 B	P
MIL-H-13919 A	F
MIL-H-19457 B	P
MIL-H-22072	G
MIL-H-25598	F
MIL-H-27601 A	P
MIL-H-46001 A	F
MIL-H-46004	F
MIL-H-5559 A	G
MIL-H-5606 B (Red Oil)	P
MIL-H-6083 C	F
MIL-H-7083 A	G
MIL-H-7644	P
MIL-H-81019 B	F
MIL-H-8446 B (MLO-8515)	P
MIL-I-27686 D	G
MIL-J-5161 F	P
MIL-J-5624 G JP-3, JP-4, JP-5	P
Milk	E
MIL-L-10295 A	F
MIL-L-10324 A	F
MIL-L-11734 B	F
MIL-L-14107 B	P
MIL-L-15017	F
MIL-L-15018 B	F
MIL-L-15019 C	F
MIL-L-15719 A	P
MIL-L-17331 D	F
MIL-L-17353 A	F
MIL-L-17672 B	F
MIL-L-18486 A	F
MIL-L-19701	F
MIL-L-2104 B	F
MIL-L-2105 B	F
MIL-L-21260	F
MIL-L-21568 A	P
MIL-L-22396	F
MIL-L-23699 A	F
MIL-L-25336 B	F
MIL-L-25681 C	P

MIL-L-25968	F
MIL-L-26087 A	F
MIL-L-27694 A	P
MIL-L-3150 A	F
MIL-L-3503	F
MIL-L-3545-B	P
MIL-L-46000 A	F
MIL-L-46002	F
MIL-L-5020 A	P
MIL-L-6082 C	F
MIL-L-6085 A	F
MIL-L-6086 B	F
MIL-L-6387 A	F
MIL-L-644 B	F
MIL-L-7645	P
MIL-L-7808 F	F
MIL-L-7870 A	F
MIL-L-8383 B	F
MIL-L-9000 F	P
MIL-L-9236 B	P
MIL-O-11773	F
MIL-O-6081 C	F
MIL-P-12098	P
MIL-P-46046 A	P
MIL-S-3136 B Type I	P
MIL-S-3136 B Type II	P
MIL-S-3136 B Type III	P
MIL-S-3136 B Type IV	F
MIL-S-3136 B Type V	F
MIL-S-3136 B Type VI	F
MIL-S-3136 B Type VII	P
MIL-S-81087	P
MIL-T-9188 B	P
Mineral Oil	G
Monochlorobenzene	P
Monoethanol Amine	G
Monomethyl Aniline	na
Monomethyl Ether (Methyl Ether) (Dimethyl Ether)	E
Monovinyl Acetylene	G
Mustard Gas	E
Naphtha	P
Naphthalene	P
Naphthalenic Acid	P
Natural Gas	E
Neats Foot Oil	G
Neville Acid	P
N-Hexaldehyde	G
N-Hexene-1	P
Nickel Acetate (aq)	P

Nickel Chloride (aq)	E
Nickel Sulfate (aq)	E
Niter Cake	E
Nitric Acid (Conc.)	P
Nitric Acid (Dilute)	G
Nitric Acid-Red Fuming	P
Nitrobenzene	P
Nitrobenzene (Petroleum Ether)	P
Nitroethane	P
Nitrogen	E
Nitrogen Tetroxide	P
Nitromethane	P
N-Octane	P
n-Propyl Acetate	P
O-A-548 b	G
O-Chloronaphthalene	P
Octachlorotoluene	P
Octadecane	P
Octyl Alcohol	G
O-Dichlorobenzene	P
O-Dichlorobenzene	P
Oleic Acid	P
Oleum Spirits	P
Olive Oil	F
O-T-634 b	P
Oxalic Acid	G
Oxygen-(200-400°F)	G
Oxygen-Cold	E
Ozone	E
Paint Thinner, Duco	P
Palmitic Acid	P
P-Cymene	P
P-D-680	P
Peanut Oil	E
Perchloric Acid	P
Perchloroethylene	P
Petroleum-Above 250°F	P
Petroleum-Below 250°F	G
Phenol (Carbolic Acid)	P
Phenyl Ethyl Ether	P
Phenyl Hydrazine	na
Phenylbenzene (Biphenyl) (Diphenyl)	P
Phorone (Diisopropylidene Acetone)	P
Phosphoric Acid-20%	G
Phosphoric Acid-45%	F
Phosphorus Trichloride	na
Pickling Solution	P
Picric Acid	P
Pine Oil	P

Pinene	P
Piperidine	P
Plating Solution-Chrome	P
Plating Solution-Others	P
Polyvinyl Acetate Emulsion	na
Potassium Acetate (aq)	P
Potassium Chloride (aq)	E
Potassium Cupro Cyanide (aq)	E
Potassium Cyanide (aq)	E
Potassium Hydroxide (aq)	F
Potassium Nitrate (aq)	E
Potassium Sulfate (aq)	E
Potassium Dichromate (aq)	E
Producer Gas	G
Propane	P
Propyl Acetone (Methyl Butyl Ketone)	F
Propyl Alcohol	E
Propyl Nitrate	P
Propylene	P
Propylene Oxide	P
P-S-661 b	P
Pydraul, 10E, 29 ELT	P
Pydraul, 115E	P
Pydraul, 230E, 312C, 540C	P
Pydraul, 30E, 50E, 65E, 90E	E
Pyranol, Transformer Oil	P
Pyridine	P
Pyroligneous Acid	na
Pyrrole	G
Radiation	F
Rapeseed Oil	P
Red Oil (MIL-H-5606)	P
RJ-1 (MIL-F-25558 B)	P
RP-1 (MIL-F-25576 C)	P
Sal Ammoniac	G
Salicylic Acid	na
Salt Water	E
Sewage	G
Silicate Esters	P
Silicone Greases	F
Silicone Oils	F
Silver Nitrate	E
Skydrol 500	F
Skydrol 7000	F
Soap Solutions	E
Soda Ash	E
Sodium Acetate (aq)	P
Sodium Bicarbonate (aq) (Baking Soda)	E
Sodium Bisulfite (aq)	E

Sodium Borate (aq)	E
Sodium Chloride (aq)	E
Sodium Cyanide (aq)	E
Sodium Hydroxide (aq)	G
Sodium Hypochlorite (aq) (Chlorox)	G
Sodium Metaphosphate (aq)	na
Sodium Nitrate (aq)	P
Sodium Perborate (aq)	G
Sodium Peroxide (aq)	P
Sodium Phosphate (aq)	P
Sodium Silicate (aq)	na
Sodium Sulfate (aq)	E
Sodium Thiosulfate (aq)	E
Soybean Oil	E
Stannic Chloride (aq)	G
Stannous Chloride (aq)	G
Steam Over 300°F	P
Steam Under 300°F	F
Stearic Acid	G
Stoddard Solvent	P
Styrene	P
Sucrose Solution	E
Sulfite Liquors	P
Sulfur	F
Sulfur Chloride (aq)	F
Sulfur Dioxide (Liquified Under Pressure)	G
Sulfur Dioxide (Dry)	G
Sulfur Dioxide (Wet)	G
Sulfur Hexafluoride	G
Sulfur Trioxide	G
Sulfuric Acid (20% Oleum)	P
Sulfuric Acid (Conc.)	P
Sulfuric Acid (Dilute)	P
Sulfurous Acid	P
Tannic Acid	G
Tar, Bituminous	G
Tartaric Acid	E
Terpineol	na
Tertiary Butyl Alcohol	G
Tertiary Butyl Catechol	na
Tertiary Butyl Mercaptan	P
Tetrabromoethane	P
Tetrabromomethane	P
Tetrabutyl Titanate	na
Tetrachloroethylene	P
Tetraethyl Lead	na
Tetrahydrofuran	P
Tetralin	P
Thionyl Chloride	na

Titanium Tetrachloride	P
Toluene	P
Toluene Diisocyanate	P
Transformer Oil	G
Transmission Fluid Type A	G
Triacetin	na
Triaryl Phosphate	F
Tributoxy Ethyl Phosphate	na
Tributyl Mercaptan	P
Tributyl Phosphate	P
Trichloroacetic Acid	na
Trichloroethane	P
Trichloroethylene	P
Tricresyl Phosphate	F
Triethanol Amine	na
Triethyl Aluminum	na
Triethyl Borane	na
Trinitrotoluene	na
Trioctyl Phosphate	F
TT-I-735 b	E
TT-N-95 a	P
TT-N-97 B	P
TT-S-735 Type I	P
TT-S-735 Type II	P
TT-S-735 Type III	P
TT-S-735 Type IV	F
TT-S-735 Type V	F
TT-S-735 Type VI	F
TT-S-735 Type VII	P
TT-T-656b	P
Tung Oil (China Wood Oil)	P
Turbine Oil	P
Turpentine	P
Unsymmetrical Dimethyl Hydrazine (UDMH)	P
Varnish	P
Vegetable Oils	G
Versilube F-50	F
Vinegar	E
Vinyl Chloride	na
VV-B-680	P
VV-G-632	F
VV-G-671c	F
VV-H-910	P
VV-I-530a\	F
VV-K-211d	P
VV-K-220a	P
VV-L-751b	P
VV-L-800	F
VV-L-820b	F

VV-L-825a Type I	F
VV-L-825a Type II	F
VV-L-825a Type III	P
VV-O-526	F
VV-P-216a	F
VV-P-236	P
Wagner 21B Brake Fluid	F
Water	E
Whiskey, Wines	E
White Oil	P
White Pine Oil	P
Wood Oil	P
Xylene	P
Xylidine (Di-methyl Aniline)	P
Zeolites	na
Zinc Acetate (aq)	P
Zinc Chloride (aq)	E
Zinc Sulfate (aq)	E