

Chemical Resistance Guide for Fluoroelastomers

Rough Standard for Employment

A: Suitable
B: Applicable

C: Not Recommendable
D: Not Applicable

Chemicals (100% conc. At ambient temp. and pressure)	AFLAS® 100/150/300	AFLAS® 200	FKM dipolymer	FKM terpolymer	Perfluoroelastomer
Acetaldehyde	D	D	D	D	C
Acetamide	A	B	D	C	A
Acetic Acid, Glacial	C	D	D	D	A
Acetic Anhydride	B	C	D	D	A
Acetone	D	D	D	D	A
Acetonitrile	A	A	A	A	A
Acetophenone	D	D	D	D	A
Acetyl Chloride	A	A	A	A	A
Acetylacetone	D	D	D	D	A
Acetylene	A	A	A	A	A
Acrylic Acid	D	D	D	D	A
Acrylonitrile	B	C	C	C	A
Adipic Acid	B	C	C	C	A
Allyl Chloride	B	C	C	C	A
Aminobenzoic Acid	A	B	C	C	A
Aminopyridine	C	D	D	D	A
Ammonia Gas, Cold	A	C	D	D	A
Ammonium Hydroxide	A	A	B	B	A
Amyl Acetate	D	D	D	D	A
Amyl Chloride	A	A	A	A	A
Amyl Alcohol	A	A	B	B	A
Amylchloronaphthalene	B	B	A	A	A
Amylnaphthalene	B	B	A	A	A
Aniline	B	C	D	C	A
Aniline Hydrochloride	A	A	B	B	A
Aniline Oils	B	C	C	C	A
Aqua Regia	C	C	C	C	B
Arsenic Acid	A	A	A	A	A
Arsenic Trichloride	D	D	D	D	A
ASTM-Reference Fuel C	D	C	A	A	A
ASTM-Reference Fuel D	D	C	A	A	A
ASTM-Reference Oil No.1	A	A	A	A	A
ASTM-Reference Oil No.3	A	A	A	A	A
Benzaldehyde	B	C	D	D	B

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Benzene	D	C	A	A	A
Benzene Sulfonic Acid	A	A	A	A	A
Benzoic Acid	A	A	A	A	A
Benzophenone	A	A	A	A	A
Benzotrichloride	C	B	A	A	A
Benzoyl Chloride	B	B	B	B	A
Benzyl Benzoate	C	B	A	A	A
Benzyl Chloride	B	B	A	A	A
Benzyl Alcohol	B	B	A	A	A
Boric Acid	A	A	A	A	A
Bromine Anhydrous	A	A	A	A	A
Bromine Water	A	A	A	A	A
Bromochlorotrifluoroethane	A	A	A	A	A
Bromoethane	A	A	A	A	A
Butadiene	B	B	A	A	A
Butane	B	B	A	A	A
Butyl Acetate	C	D	D	D	D
Butyl Acetyl Ricinoleate	A	A	A	A	A
Butyl Oleate	A	A	A	A	A
Butyl Stearate	A	A	A	A	A
Butyl Acrylate	C	C	D	D	A
Butyl Alcohol	A	A	A	A	A
Butylaldehyde	D	D	D	D	C
Butylamine	B	C	D	D	B
Butyl Carbitol	B	B	C	C	A
Butylcellosolve	C	C	D	D	A
Butylcellosolve Adipate	B	B	B	B	A
Camphor	A	A	A	A	A
Caprolactam	B	C	D	D	A
Carbon Bisulfide	A	A	A	A	A
Carbon Dioxide	A	A	B	B	A
Carbon Monoxide	A	A	A	A	A
Carbon Tetrachloride	D	D	A	A	B
Carbonic Acid	A	A	A	A	A

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Castor Oil	A	A	A	A	A
Cellosolve	A	B	D	D	A
Cellosolve Acetate	C	C	D	D	A
n-Hexadecane	A	A	A	A	A
Chlorine Water	A	A	A	A	A
Chlorine, Dry	C	C	C	C	B
Chloroacetic Acid	B	C	D	D	A
Chloroacetone	D	D	D	D	A
Chloroaniline	B	B	C	C	A
Chlorobromomethane	C	C	A	A	A
Chlorobutadiene	C	C	A	A	A
Chlorodecane	B	B	A	A	A
Chloroform	D	D	A	A	A
Chlorohydrin	A	A	A	A	A
Chloronaphthalene	D	D	A	A	A
Chrome, Alum	C	C	A	A	A
Chromic Acid	A	A	A	A	A
Citric Acid	A	A	A	A	A
Coal Tar	A	A	A	A	A
Cresol	A	A	A	A	A
Cresylic Acid	A	A	A	A	A
Crude Oil	A	A	A	A	A
Cumene	C	C	A	A	A
Cyanogen Chloride	C	C	B	B	A
Cyclohexane	C	B	A	A	A
Cyclohexanol	A	A	A	A	A
Cyclohexanone	C	C	D	D	B
Decane	A	A	A	A	A
Dextron	A	A	A	A	A
Diacetonealcohol	D	D	D	D	A
Diaznon	D	D	D	D	A
Dibenzyl Sebacate	A	B	B	B	A
Dibenzylether	C	C	D	D	A
Dibromoethylbenzene	D	C	A	A	A

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Dibutyl Phthalate	B	B	C	C	A
Dibutyl Sebacate	B	B	B	B	A
Dibutylamine	B	B	D	D	A
Dibutylether	D	D	C	C	A
Dichloro-isopropylether	C	C	C	C	A
Dichlorobutane	A	A	A	A	A
Dicyclohexylamine	C	C	D	D	A
Diethyl Sebacate	B	B	B	B	A
Diethyl Sulfate	B	B	C	C	A
Diethylamine	B	D	D	D	A
Diethylbenzene	C	B	A	A	A
Diethyleneglycol	A	A	B	B	A
Diethylether	D	D	D	D	A
Dimethyl Formamide (DMF)	C	C	D	D	A
Dimethyl Sulfoxide (DMSO)	B	B	C	C	A
Dimethylether	D	D	D	D	A
Dimethylphthalate	B	B	B	B	A
Dinitrotoluene	D	D	D	D	A
Diocetyl Phthalate	B	B	B	B	A
Diocetyl Sebacate	A	A	B	B	A
Dioxane	D	D	D	D	A
Dioxolane (Dioxolans)	D	D	D	D	A
Dipentene	C	B	A	A	A
Diphenyl	C	B	A	A	A
Diphenyl Oxides	B	B	A	A	A
Ehtyl Chloride	B	B	A	A	A
Epichlorohydrin (Ethylene Chlorohydrin)	A	A	A	A	A
Ethanol	A	A	C	C	A
Ethyl Acetate	C	C	D	D	A
Ethyl Acrylate	C	C	D	D	A
Ethyl Benzoate	C	B	A	A	A
Ethyl Chlorocarbonate	B	B	A	A	A
Ethyl Dibromide	B	B	A	A	A
Ethyl Dichloride	A	A	A	A	A

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Ethyl Formate	A	B	C	C	C
Ethyl Sulfate	A	B	D	D	A
Ethyl Tertiarybutyl Ether	B	B	C	C	A
Ethylbenzene	C	B	A	A	A
Ethylcyclopentane	B	B	A	A	A
Ethylene Diamine	A	C	D	D	A
Ethylene Glycol	A	A	A	A	A
Ethylene Oxide	D	D	D	D	B
Ethylene Trichloride	D	D	A	A	A
Formaldehyde	D	D	D	D	B
Formamide	B	B	C	C	A
Formic Acid	C	C	D	D	B
Freon 11	C	C	D	D	B
Freon 112	D	D	A	A	B
Freon 113	D	D	B	C	C
Freon 114	D	D	B	B	C
Freon 115	D	D	A	A	C
Freon 12	D	D	A	A	B
Freon 142B	D	D	B	B	C
Fumaric Acid	A	A	A	A	A
Fuming Sulfuric Acid (Oleum)	A	B	C	C	D
Furan	D	D	D	D	A
Furfural (Furaldehyde)	D	D	D	D	B
Furfuryl Alcohol	B	C	D	D	A
Glucose	A	A	A	A	A
Hexachloroacetone	D	D	D	D	A
Hydrazine	A	B	D	D	B
Hydrobromic Acid	A	A	A	A	A
Hydrochloric Acid 37%	A	A	A	A	A
Hydrocyanic Acid (Hydrogen Cyanide)	A	A	A	A	A
Hydrogen Chloride, Gas	A	A	A	A	B
Hydrogen Peroxide	A	A	A	A	A
Hydrogen Sulfide, Dry Cold	A	A	D	D	A
Hydroquinone (Hydroquinol)	C	C	C	C	B

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Iodine	A	A	A	A	A
Iodine Pentafluoride	D	D	D	D	C
Isobutyl Alcohol	A	A	A	A	A
Isobutylaldehyde	D	D	D	D	D
Isobutyl Chloride	D	C	A	A	A
Isobutyl Ether	D	D	D	D	A
Isobutyric Acid	C	C	D	D	A
Isododecane	A	A	A	A	A
Isophorone	B	C	D	D	A
Isopropanol	A	A	A	A	A
Isopropyl Acetate	D	D	D	D	A
Isopropyl Chloride	D	C	A	A	A
Isopropyl Ether	D	D	D	D	A
Kerosene	B	B	A	A	A
Ligroin	C	B	A	A	A
Linoleic Acid	A	A	B	B	A
Liquid Petroleum Gas	B	B	A	A	A
Lithium Hydroxide	A	B	C	C	B
Lubricating Oils, SAE 10, 20, 30, 40 & 50	A	A	A	A	A
Maleic Acid	A	A	A	A	A
Maleic Anhydride	A	A	A	A	A
Methanol	A	B	D	D	A
Mercaptobenzothiazole (MBT)	A	A	A	A	A
Mercuric Chloride	A	A	A	A	A
Mercury	A	A	A	A	A
Mesityl Oxide	D	D	D	D	A
Methacrylic Acid	B	B	C	C	A
Methane	B	B	A	A	A
Methyl Acetate	D	D	D	D	A
Methyl Acetoacetate	D	D	D	D	A
Methyl Acrylate	D	D	D	D	A
Methyl Benzoate	B	B	B	B	A
Methyl Bromide	B	B	A	A	A
Methyl Butyl Ketone	D	D	D	D	A

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o-Dichlorobenzene	D	D	A	A	A
Octadecane	A	A	A	A	A
Octyl Alcohol	A	A	A	A	A
Oleic Acid	A	A	B	B	A
Oxalic Acid	A	A	A	A	A
Ozone	A	A	A	A	A
p-Dichlorobenzene	C	C	A	A	A
p-Tertiarybutyl Catechol	A	A	A	A	A
Palmitic Acid (Hexadecanoic Acid)	A	A	A	A	A
Pentaerythritol	A	A	A	A	A
Perchloric Acid	A	A	A	A	A
Phenol	A	A	A	A	A
Phenyl Ethyl Ether	D	D	D	D	A
Phenylhydrazine	A	A	A	A	A
Phenylbenzene	C	C	A	A	A
Phorone	D	D	D	D	A
Phosphoric Acid	A	A	A	A	A
Phosphorous Trichloride Acid	A	A	A	A	A
Phthalic Anhydride	C	C	D	A	D
Pinene	A	A	A	A	A
Polyethylene Glycol	A	B	C	C	A
Polyvinyl Acetate Emulsion	A	B	C	C	A
Potassium Hydroxide	A	C	D	D	C
Propane	A	A	A	A	A
Propionitrile	A	A	A	A	A
Propyl Acetate	D	D	D	D	A
Propylene	A	A	A	A	A
Propylene Glycol	A	A	A	A	A
Propylene Oxide	C	D	D	D	A
Pyridine	B	C	D	D	A
Resorcinol	A	A	A	A	A
Ammonium Chloride	A	A	A	A	A
Salicylic Acid	A	A	A	A	A
Silicate Esters	A	A	A	A	A

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Silicone Oils	A	A	A	A	A
Sodium Hydroxide	A	C	D	C	C
Tin Chloride	A	A	A	A	A
Steam	A	B	C	C	A
Stearic Acid	A	A	A	A	A
Styrene Monomer	D	D	B	B	A
Sulfer Chloride	A	A	A	A	A
Sulfolane	A	A	B	B	A
Sulfur (Molten 250F)	A	A	A	A	A
Sulfur Dioxide Gas	B	C	D	D	A
Sulfur Hexafluoride	C	C	C	C	B
Sulfur Trioxide, Dry	B	B	A	A	A
Tannic Acid	A	A	A	A	A
Tartaric Acid (Dioxysuccinic Acid)	A	A	A	A	A
Terpineol	A	A	A	A	A
Tertiarybutyl Alcohol	A	A	A	A	A
Tertiarybutyl Mercaptan	A	A	A	A	A
Tetrabromoethane	C	C	A	A	A
Tetrabutyl Titanate	A	A	A	A	A
Tetrachloroethane	D	D	A	A	A
Tetrachloroethylene	D	D	A	A	A
Tetraethyllead	C	B	A	A	A
Tetrahydrofuran	D	D	D	D	A
Tetralin	D	D	A	A	A
Titanium Tetrachloride	B	B	A	A	B
Toluene	D	D	A	A	A
Toluene Diisocyanate	D	D	D	D	A
Tosylarginine Methyl Ester	D	D	D	D	A
Triacetin	D	D	D	D	A
Tributoxyethyl Phosphate	A	A	A	A	A
Tributyl Phosphate	B	C	D	D	A
Trichloroacetic Acid	C	C	C	C	A
Tricresyl Phosphate	A	A	B	B	A
Triethanolamine	A	B	D	D	B

