

FKM/FFKM Fluid Compatibility Tables

A - Satisfactory / B - Fair (usually OK for static seal) / C - Doubtful (sometimes OK for static seal) / D – Unsatisfactory

CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
Acetaldehyde	D	D	D	A	A
Acetamide	D	C	A	A	A
Acetic Acid, Glacial	D	D	C	A	A
Acetic Anhydride	D	D	B	A	A
Acetone	D	D	D	B	A
Acetonitrile	A	A	A	A	A
Acetophenone	D	D	D	B	A
Acetyl Chloride	A	A	A	A	A
Acetyl Acetone	D	D	D	B	A
Acetylene	A	A	A	A	A
Acrylic Acid	D	D	D	A	A
Acrylonitrile	C	C	B	A	A
Adipic Acid	C	C	B	A	A
Allyl Chloride	C	C	B	A	A
Aminobenzoic Acid	C	C	A	A	A
Aminopyridine	D	D	C	A	A
Ammonia Gas, Cold	D	D	A	B	A
Ammonium Hydroxide	B	B	A	B	B
Amyl Acetate	D	D	D	A	A
Amyl Chloride	A	A	A	A	A
Amyl Alcohol	B	B	A	A	A
Amyl Chloronaphthalene	A	A	B	A	A
Amyl Naphthalene	A	A	B	A	A
Aniline	D	C	B	A	A
Aniline Hydrochloride	B	B	A	A	A
Aniline Oils	C	C	B	B	B
Aqua Regia	C	C	C	B	B
Arsenic Acid	A	A	A	A	A
Arsenic Trichloride	D	D	D	A	A
ASTM-Reference Fuel C	A	A	D	A	A
ASTM-Reference Fuel D	A	A	D	A	A
ASTM-Reference Oil No.1	A	A	A	A	A
ASTM-Reference Oil No.3	A	A	A	A	A
Benzaldehyde	D	D	B	A	A

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CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
Benzene	A	A	D	A	A
Benzene Sulfonic Acid	A	A	A	A	A
Benzoic Acid	A	A	A	A	A
Benzophenone	A	A	A	A	A
Benzotrichloride	A	A	C	A	A
Benzoyl Chloride	B	B	B	A	A
Benzyl Benzoate	A	A	C	A	A
Benzyl Chloride	A	A	B	A	A
Benzyl Alcohol	A	A	B	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	A	A	B	A	A
Butane	A	A	B	A	A
Butyl Acetate	D	D	C	A	A
Butyl Acetyl Ricinoleate	A	A	A	A	A
Butyl Oleate	A	A	A	A	A
Butyl Stearate	A	A	A	A	A
Butyl Acrylate	D	D	C	A	A
Butyl Alcohol	A	A	A	A	A
Butyl Aldehyde	D	D	D	A	A
Butyl Amine	D	D	B	A	A
Butyl Carbitol	C	C	B	A	A
Butyl Cellosolve	D	D	C	A	A
Butyl Cellosolve Adipate	B	B	B	A	A
Camphor	A	A	A	A	A
Caprolactam	D	D	B	A	A
Carbon Bisulfide	A	A	A	A	A
Carbon Dioxide	B	B	A	A	A
Carbon Monoxide	A	A	A	A	A
Carbon Tetrachloride	A	A	D	A	A
Carbonic Acid	A	A	A	A	A

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CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
Castor Oil	A	A	A	A	A
Cellosolve	D	D	A	A	A
Cellosolve Acetate	D	D	C	A	A
n-Hexadecane	A	A	A	A	A
Chlorine Water	A	A	A	A	A
Chlorine, Dry	C	C	C	A	A
Chloroacetic Acid	D	D	B	A	A
Chloroacetone	D	D	D	B	A
Chloroaniline	C	C	B	A	A
Chlorobromo methane	A	A	C	A	A
Chlorobutadiene	A	A	C	A	A
Chlorodecane	A	A	B	A	A
Chloroform	A	A	D	A	A
Chlorohydrin	A	A	A	A	A
Chloronaphthalene	A	A	D	A	A
Chrome, Alum	A	A	C	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	A	A	C	A	A
Cyanogen Chloride	B	B	C	A	A
Cyclohexane	A	A	C	A	A
Cyclohexanol	A	A	A	A	A
Cyclohexanone	D	D	C	A	A
Decane	A	A	A	A	A
Dextron	A	A	A	A	A
Diacetone Alcohol	D	D	D	A	A
Diazinon	D	D	D	A	A
Dibenzyl Sebacate	B	B	A	A	A
Dibenzyl Ether	D	D	C	A	A
Dibromoethyl Benzene	A	A	D	A	A

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CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
Dibutyl Phthalate	C	C	B	B	A
Dibutyl Sebacate	B	B	B	A	A
Dibutylamine	D	D	B	A	A
Dibutyl Ether	C	C	D	A	A
Dichloro-isopropyl Ether	C	C	C	A	A
Dichlorobutane	A	A	A	A	A
Dicyclohexylamine	D	D	C	A	A
Diethyl Sebacate	B	B	B	A	A
Diethyl Sulfate	C	C	B	A	A
Diethylamine	D	D	B	A	A
Diethyl Benzene	A	A	C	A	A
Diethylene Glycol	B	B	A	A	A
Diethyl Ether	D	D	D	A	A
Dimethyl Formamide (DMF)	D	D	C	A	A
Dimethyl Sulfoxide (DMSO)	C	C	B	A	A
Dimethyl Ether	D	D	D	A	A
Dimethyl Phthalate	B	B	B	A	A
Dinitrotoluene	D	D	D	A	A
Diocetyl Phthalate	B	B	B	A	A
Diocetyl Sebacate	B	B	A	A	A
Dioxane	D	D	D	A	A
Dioxolane (Dioxolans)	D	D	D	A	A
Dipentene	A	A	C	A	A
Diphenyl	A	A	C	A	A
Diphenyl Oxides	A	A	B	A	A
Ethyl Chloride	A	A	B	A	A
Epichlorohydrin (Ethylene Chlorohydrin)	A	A	A	A	A
Ethanol	C	C	A	A	A
Ethyl Acetate	D	D	C	B	A
Ethyl Acrylate	D	D	C	A	A
Ethyl Benzoate	A	A	C	A	A
Ethyl Chlorocarbonate	A	A	B	A	A
Ethyl Dibromide	A	A	B	A	A
Ethyl Dichloride	A	A	A	A	A

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CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
Ethyl Formate	C	C	A	A	A
Ethyl Sulfate	D	D	A	A	A
Ethyl Tertiarybutly Ether	C	C	B	B	A
Ethyl Benzene	A	A	C	A	A
Ethylcyclopentane	A	A	B	A	A
Ethylene Diamine	D	D	A	B	B
Ethylene Glycol	A	A	A	A	A
Ethylene Oxide	D	D	D	A	A
Ethylene Trichloride	A	A	D	A	A
Formaldehyde	D	D	D	A	A
Formamide	C	C	B	A	A
Formic Acid	D	D	C	A	A
Freon 11	D	D	C	B	B
Freon 112	A	A	D	A	A
Freon 113	B	C	D	D	C
Freon 114	B	B	D	B	B
Freon 115	A	A	D	B	B
Freon 12	A	A	D	B	B
Freon 142B	B	B	D	D	C
Fumaric Acid	A	A	A	A	A
Fuming Sulfuric Acid (Oleum)	C	C	A	A	A
Furan	D	D	D	A	A
Furfural (Furaldehyde)	D	D	D	A	A
Furfuryl Alcohol	D	D	B	A	A
Glucose	A	A	A	A	A
Hexachloroacetone	D	D	D	A	A
Hydrazine	D	D	A	A	A
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	A
Hydrogen Peroxide	A	A	A	A	A
Hydrogen Sulfide, Dry Cold	D	D	A	A	A
Hydroquinone (Hydroquinol)	C	C	C	A	A

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CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
Iodine	A	A	A	A	A
Iodine Pentafluoride	D	D	D	B	B
Isobutyl Alcohol	A	A	A	A	A
Isobutylaldehyde	D	D	D	B	B
Isobutyl Chloride	A	A	D	A	A
Isobutyl Ether	D	D	D	B	A
Isobutyric Acid	D	D	C	A	A
Isododecane	A	A	A	A	A
Isophorone	D	D	B	A	A
Isopropanol	A	A	A	A	A
Isopropyl Acetate	D	D	D	A	A
Isopropyl Chloride	A	A	D	A	A
Isopropyl Ether	D	D	D	A	A
Kerosene	A	A	B	A	A
Ligroin	A	A	C	A	A
Linoleic Acid	B	B	A	A	A
Liquid Petroleum Gas	A	A	B	A	A
Lithium Hydroxide	C	C	A	A	A
Lubricating Oils, SAE 10, 20, 30, 40 & 5	A	A	A	A	A
Maleic Acid	A	A	A	A	A
Maleic Anhydride	A	A	A	A	A
Methanol	D	D	A	A	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	A	A
Methacrylic Acid	C	C	B	A	A
Methane	A	A	B	A	A
Methyl Acetate	D	D	D	B	A
Methyl Acetoacetate	D	D	D	A	A
Methyl Acrylate	D	D	D	A	A
Methyl Benzoate	B	B	B	A	A
Methyl Bromide	A	A	B	A	A
Methyl Butyl Ketone	D	D	D	B	A

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CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
Methyl Carbonate	C	C	B	A	A
Methyl Cellosolve	D	D	A	A	A
Methyl Cellulose	D	D	A	A	A
Methyl Chloride	B	B	D	A	A
Methyl Chloroform	B	B	D	A	A
Methyl Chloroformate	A	A	A	A	A
Methylcyclopentane	A	A	B	A	A
Dimethyl Ether	B	B	D	A	A
Methyl Ethyl Ketone	D	D	D	B	A
Methyl Formate	D	D	D	A	A
Methyl Isobutyl Ketone	D	D	D	A	A
Methyl Methacrylate	D	D	D	A	A
Methyl Oleate	A	A	A	A	A
Methyl Tertiarybutyl Ether	C	C	C	B	A
Mineral Oil	A	A	A	A	A
Molybdenum Disulfide	A	A	A	A	A
Monobromobenzene	A	A	D	A	A
Monochlorobenzene	A	A	D	A	A
Monomethyl Aniline	B	B	B	A	A
Monomethyl Hydrazine	D	D	B	A	A
Monovinyl Acetylene	A	A	C	A	A
n-Heptane	A	A	C	A	A
n-Hexane	A	A	C	A	A
n-Hexane-1	A	A	C	A	A
Naptha	A	A	C	A	A
Naphthalene	A	A	C	A	A
Natural Gas	A	A	A	A	A
Niter Cake	A	A	A	A	A
Nitric Acid	C	C	B	A	A
Nitrobenzene	B	B	A	A	A
Nitrogen Tetroxide	D	D	C	B	B
Nitromethane	D	D	C	A	A
Nitropropane	D	D	B	A	A
o-Chloro Ethyl Benzene	A	A	D	A	A

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CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
o-Dichlorobenaene	A	A	D	A	A
Octadecane	A	A	A	A	A
Octyl Alcohol	A	A	A	A	A
Oleic Acid	B	B	A	A	A
Oxalic Acid	A	A	A	A	A
Ozone	A	A	A	A	A
p-Dichlorobenzene	A	A	C	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	A	A
Phenylhydrazine	A	A	A	A	A
Phenylbenzene	A	A	C	A	A
Phorone	D	D	D	A	A
Phosphoric Acid	A	A	A	A	A
Phosphorus Trichloride Acid	A	A	A	A	A
Phthalic Anhydride	D	A	C	A	A
Pinene	A	A	A	A	A
Polyethylene Glycol	C	C	A	A	A
Polyvinyl Acetate Emulsion	C	C	A	A	A
Potassium Hydroxide	D	D	A	A	A
Propane	A	A	A	A	A
Propionitrile	A	A	A	A	A
Propyl Acetate	D	D	D	A	A
Propylene	A	A	A	A	A
Propylene Glycol	A	A	A	A	A
Propylene Oxide	D	D	C	A	A
Pyridine	D	D	B	B	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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CHEMICAL NAME	Dipolymer	Terpolymer	TFE	EX FKM	FFKM
Silicone Oils	A	A	A	A	A
Sodium Hydroxide	D	C	A	A	A
Tin Chloride	A	A	A	A	A
Steam	C	C	A	A	A
Stearic Acid	A	A	A	A	A
Styrene Monomer	B	B	D	A	A
Sulfur Chloride	A	A	A	A	A
Sulfolane	B	B	A	A	A
Sulfur (Molten 250F)	A	A	A	A	A
Sulfur Dioxide Gas	D	D	B	A	A
Sulfur Hexafluoride	C	C	C	B	B
Sulfur Trioxide, Dry	A	A	B	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	A	A	C	A	A
Tetrabutyl Titanate	A	A	A	A	A
Tetrachloroethane	A	A	D	A	A
Tetrachloroethylene	A	A	D	A	A
Tetraethyl Lead	A	A	C	A	A

Material Classification

F532	Dipolymer	IP16	FFKM
F588	Dipolymer	IP22	FFKM
F575	Dipolymer	IP28	FFKM
F608	Terpolymer	IP33	FFKM
F357	Terpolymer	IP39	FFKM
F972	Terpolymer	IP40N	FFKM
F980	Terpolymer	IP48	FFKM
F992	Terpolymer	IP55C	FFKM
1077	Terpolymer	IP66	FFKM
F375	TFE	IP68	FFKM
1472	EX FKM	IP77	FFKM
		IP88	FFKM
		9671	FFKM

Dipolymer	di-polymer of vinylidene fluoride and hexafluoropropylene
Terpolymer	Terpolymer of vinylidene fluoride, hexafluoropropylene, tetrafluoroethylene
TFE	Tetrafluoroethylene-Propylene copolymer
EX FKM	Tetrapolymer of ethylene, Tetrafluoro-ethylene(TFE), Perfluoro-methylvinylether(pmve)
FFKM	Perfluoroelastomer