



# Chemical Compatibility Guide

A=Excellent, B=Good, C=Fair, X=Not Recommended, Blank=Insufficient Information

Chemical	SBR	EPDM	NBR	FKM	Chemical	SBR	EPDM	NBR	FKM
Acetaldehyde	-	B	X	X	Aminoacetic Acid	-	A	B	A
Acetamide	-	A	A	X	Ammonia (gas)	-	A	A	X
Acetic Acid 30%	-	A	C	C	Ammonia, Gas (Cold)	A	A	A	X
Acetic Acid Chloride	-	X	X	A	Ammonia (gas, hot)	-	B	X	X
Acetic Acid Vapors	-	A	X	X	Ammonia, Gas 65°C	C	B	C	X
Acetic Acid, 96-99,5% (Glacial)	-	B	X	X	Ammonia (liquid)	B	A	B	X
Acetic Anhydride	-	B	X	X	Ammonia Solution	-	A	B	X
Acetic Ester (Ethyl Acetate)	X	-	X	X	Ammonia, In water	B	A	B	B
Acetone	B	A	X	X	Ammonia, anhydrous	-	A	A	X
Acetophenone	-	A	X	X	Ammonia, aqueous Solution	-	A	C	X
Acetylacetone	-	A	X	X	Ammonia-Lithium	-	B	B	X
Acetylchloride	-	X	X	A	Ammonium Acetate	-	A	A	X
Acetylene	B	B	A	A	Ammonium Carbonate	-	A	A	X
Acetylene Gas	-	A	A	A	Ammonium Carbonate Solution	-	A	X	-
Acetylene Tetrabromide	-	A	X	A	Ammonium Chloride	-	A	A	A
Acrolein	-	A	C	X	Ammonium Chloride Solution	-	A	A	-
Acrylonitrile	-	X	X	X	Ammonium Fluoride	-	A	A	B
Adipic Acid	-	A	A	A	Ammonium Hydroxide	-	A	X	X
Adipic Aciddiethylester	-	A	X	X	Ammonium Hydroxide Solution	-	A	X	X
Aero safe 2300 W	-	A	X	X	Ammonium Nitrate Solution	-	A	A	-
Aero Shell 17 Grease	-	X	A	A	Ammonium Nitrite	-	A	A	-
Aero Lubriplate	-	X	A	A	Ammonium Phosphate, Monobasic, Dibasic, Tribasic	-	A	A	-
Aero safe 2300	-	A	X	X	Ammonium Sulfate Solution	-	A	A	X
Aero Shell 1 AC Grease	-	X	A	A	Ammonium Sulfide	-	A	B	X
Aero Shell 7 A Grease	-	X	A	A	Ammonium Thiocyanate	-	A	A	-
Aero Shell 750	-	X	B	A	Amyl Acetate	-	A	X	X
Aero Shell Fluid 4	-	X	A	A	Amyl Alcohol	-	A	B	B
Aerozene 50 (50%Hydrazine, 50% UDMH)	-	A	X	X	Amyl Borate	-	X	A	-
Air	-	A	A	A	Amyl Chloride	-	X	X	A
Alcohols, Aliphatic	B	B	A	-	Amyl Naphtalene	-	X	X	A
Alcohols, Aromatic	X	X	C	-	Anderol L-774	-	X	A	A
Alcohol (Methanol)	-	A	B	C	Aniline Chlorohydrate	-	B	B	B
Alkyl Arylsulphonic Acid	-	A	C	X	Aniline Liquid	-	A	X	X
Alkyl Benzene	-	X	X	A	Aniline	X	X	X	B
Allyl Alcohol (2-Propene-1-ol)	-	A	B	B	Animal Fats	-	B	A	A
Allyl Chloride (3-Chloro-1-Propene)	-	X	X	-	Anisole	-	X	X	X
Allyl Ketone	-	A	X	X	Antimony Chloride	-	A	A	A
Aluminium Acetat	-	A	B	X	Antimony Chloride, dry	-	A	A	A
Aluminium Bromide	-	A	A	A	Aqua Regia (Nitric Acid/Hydrochloric Acid)	-	X	X	X
Aluminium Fluoride	-	A	A	A	Argon Gas	-	A	A	A
Aluminium Nitrate	-	A	A	A	Aromatic Fuels (up to 50% Aromatic)	-	X	A	A
Aluminium Phosphate	-	A	A	A	Aromatic Hydrocarbons (100% Aromatic)	-	X	X	A
Aluminium Sulfate	-	A	A	A	Arsenic Acid	-	A	A	A
Aluminium-Potassiumsulfate Solution	-	A	-	-	Arsenic Acid, Solution	-	A	A	A
Aluminum Chloride Solution	-	A	A	A	Asphalt, Emulsion	-	X	B	A
Aluminum Hydroxide Solution	-	A	A	A	ASTM Test Fuel A	-	X	A	A
Aluminum Sulphate Solution	-	A	A	A	ASTM Test Fuel B	-	X	A	A
Ambrex 33 (Mobile)	-	X	A	A	ASTM Test Fuel C	-	X	B	A
Ambrex 830 (Mobile)	-	X	A	A	ASTM-Oil IRM 902	-	X	A	A
Amines, primary (such as Methyl, Ethyl, Propyl, Allyl)	-	A	X	X	ASTM-Oil IRM 903	-	X	A	A



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ASTM-Oil No.1	-	X	A	A	Butane	-	X	A	A
ATM-Brake Fluid (Glycolbased)	-	A	X	X	1-Butanethiol	-	X	X	A
Automatic-Transmission Fluid	-	X	A	A	Butanole	-	B	A	A
Automotive Gasoline	-	X	A	A	Butanol, (Butyl Alcohol)	A	A	A	A
Aviation Gasoline	X	X	A	A	Butantriol	-	A	A	A
Barium Carbonate	-	A	A	A	Butene	-	X	B	A
Barium Chloride Solution	-	A	A	A	Butylphenol	-	X	X	B
Barium Hydroxide Solution	-	A	A	A	Butter	-	B	A	A
Barium Nitrate Solution	-	A	A	A	Buttermilk	-	A	A	A
Barium Sulfate	-	A	A	A	Butyl Acetate	-	B/C	X	X
Barium Sulfide Solution	-	A	A	A	Butyl Alcohol	-	A	A	A
Battery Acid (Sulfuric Acid diluted)	-	A	X	A	Butyl Amine	-	-	X	X
Beef Tallow	-	X	A	A	Butyl Carbitol	-	A	X	C
Beer	-	A	A	A	Butyl Cellosolve	-	A	C	X
Beet Sugar Sap	-	A	A	A	Butyl Diglycol	-	A	A	A
Benzaldehyde	-	B	X	X	Butyl Phthalate	-	A	X	X
Benzenesulfonic Acid	-	-	X	A	Butyl Pyrocatechol	-	B	X	A
Benzine (Gasoline)	-	X	A	A	Butyl Stearate	-	X	B	A
Benzine 50/Benzene 30/Ethanol 20	-	X	X	B	Butylbenzoate	-	A	X	A
Benzine 50/Benzene 50	-	X	X	B	Butylene	-	X	B	A
Benzine 60/Benzene 40	-	X	X	B	Butylether	-	X	X	X
Benzine 70/Benzene 30	-	X	B	A	Butyraldehyd	-	B	X	X
Benzine 80/Benzene 20	-	X	B	A	Butyric Acid	-	X	B	A
Benzoic Acid, Solution	-	B	B	A	Butyric Acid Butyl Ester	-	B	X	B
Benzol (Benzene)	X	X	X	A	Calcium Acetate	-	A	B	X
Benzophenone	-	B	-	A	Calcium Bisulfate	-	A	A	A
Benzyl Alcohol	-	B	X	A	Calcium Bisulfide Solution	-	A	B	B
Benzyl Chloride	-	X	X	A	Calcium Carbonate	-	A	A	A
Biphenyl	-	X	X	A	Calcium Carbonate Slurry	-	A	A	A
Bitumen	-	X	X	A	Calcium Chloride	-	A	A	A
Black Liquor	-	B	B	B	Calcium Chloride 65°C	A	A	A	A
Blast Furnace Gas	-	X	X	A	Calcium Chloride, brine	-	A	A	A
Bleach Solution	X	A	X	A	Calcium Cyanide	-	A	A	-
Bleaching Powder Solution	-	A	C	A	Calcium Hydroxide Solution	-	A	A	A
Boiler Feed Water	-	A	B	B	Calcium Hypochlorite Solution	-	A	C	A
Bone Oil	-	X	A	A	Calcium Nitrate	-	A	A	A
Borax (Sodiumborate)	-	A	B	A	Calcium Oxide	-	A	A	A
Borax Solutions	-	A	B	B	Calcium Phosphate Slurry	-	A	A	A
Boric Acid	-	A	A	A	Calcium Silikate	-	A	A	A
Brake Fluids (based on glycol ether)	-	A	X	X	Calcium Sulfate	-	A	A	A
Brake Fluids (based on mineral oil)	-	-	A	A	Calcium Sulfide	-	A	A	A
Bromine	X	X	X	B	Calcium Sulfite	-	A	A	A
Bromine Solution in Water	-	X	X	A	Calcium Thiosulfate	-	A	B	A
Bromine Water	-	-	-	A	Caliche Solution (Sodium Nitrate)	-	A	B	A
Bromine Vapour	-	X	X	B	Campher	-	X	A	B
Bromobenzene	-	X	X	A	Campher Oil	-	X	A	B
Bromochlorotrifluoroethan	-	X	X	A	Cane Sugar Sap	-	A	A	A
Bunker Oil	-	X	B	A	Carbitol	-	B	B	B
Butadiene	-	X	X	B	Carbolic Acid (Penole)	-	B	X	A
Butandiol	-	A	A	X	Carbolineum	-	B	B	A



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Chemical	SBR	EPDM	NBR	FKM	Chemical	SBR	EPDM	NBR	FKM
Carbon Dioxide, dry	-	B	A	A	Coconut, Fatty Acid	-	X	A	A
Carbon Dioxide, wet	-	B	A	A	Cod-liver Oil	-	B	A	A
Carbon Disulfide	-	X	X	A	Coffee	-	A	A	A
Carbon Monoxide	-	A	A	B	Coffee Extract	-	A	A	A
Carbon Tetrachloride	X	X	C	A	Coke Oven Gas	-	X	X	A
Carbonic Acid	-	A	A	A	Copper Acetate Solution	-	B	X	X
Carboxylic Acids	-	A	A	A	Copper Ammonium Acetate	-	A	X	X
Casein	-	B	A	A	Copper Chloride, Solution	-	A	A	A
Castor Oil	B	B	A	A	Copper Cyanide	-	A	A	A
Cellosolve (2-Ethoxyethanol)	-	B	X	X	Copper Fluoride	-	A	B	A
Celluloseacetat	-	B	A	X	Copper Nitrate	-	A	B	A
Chile Salpêtre (Sodium Nitrate)	-	A	B	A	Copper Sulfate (Blue Vitriol) Solution	-	A	A	A
Chinawood Oil	-	X	A	A	Corn Oil	-	X	A	A
Chloroacetic Acid	-	A	X	X	Cotton Oil	-	C	A	A
Chloroacetic Acid Ethylester	-	X	X	A	Cottonseed Oil	-	X	A	A
Chloric Acid	-	B	X	B	Cresol	X	X	X	A
Chloride of Lime	-	A	X	A	Crtonaldehyde	-	A	X	X
Chlorine Dioxide	-	C	X	A	Crude Oil	X	X	B	A
Chlorine gas, Anhydrous	-	A	C	A	Cumene	-	X	X	A
Chlorine Gas Dry X	X	X	X	-	Cupric Sulphate	B	A	A	A
Chlorine Water	X	B	X	A	Cuprous Ammonia Acetate Solution	-	A	X	X
Chlorine, liquid	-	B	X	A	Cyanic Acid	-	A	B	A
Chloroacetaldehyde	-	A	X	X	Cyanic Acid Solution	-	A	B	A
Chloroacetone	-	A	X	X	Cyclohexane	X	X	A	A
Chloroamine	-	A	A	X	Cyclohexanole	-	X	B	A
Chlorobenzene	-	X	X	B	Cyclohexanone	-	X	X	X
Chlorobromomethane	-	B	X	B	Cyclohexylamine	-	C	X	X
Chlorobutadiene	-	X	X	B	(p)-Cymene	-	X	X	A
Chloroform	-	X	X	B	DDT Solutions (Kerosene Solvent)	-	X	A	A
Chloromethyl Ether	-	C	X	X	DDT Solutions (Toluene Solvent)	-	X	X	A
Chloronaphthalene	-	X	X	A	Decalin (Decahydronaphtalene)	-	X	X	A
(o)-Chlorophenol	-	X	X	A	Decane	-	X	A	A
Chlorosulfonic Acid	-	C	X	X	Detergent Solutions	A	A	A	B
Chlorothene	-	X	X	B	Dextrin	-	A	A	A
Chlorotoluene	-	X	X	A	Dextrose	-	A	A	A
Chrome Alum	-	A	A	A	Diacetone	-	A	-	X
Chromic Acid	-	C	X	A	Diacetone Alcohol	-	A	X	X
Chromic Acid 38°C	X	C	X	C	1,2-Diaminoethane	-	A	B	X
Chromo sulfuric Acid	-	X	X	A	Diamylamine	-	A	X	X
Cider	-	A	A	B	Diazinone	-	X	X	B
CIP fluids, acidic*	-	A	X	B	Dibenzyl Sebacate	-	B	X	B
CIP fluids, alkaline	-	A	X	X	Dibenzyl Ether	X	B	X	C
Citric Acid	A	A	A	A	Dibromodifluoromethane	-	B	X	-
Citrous Oils	-	X	B	A	Dibromomethylbenzene	-	X	X	A
Coal Tar	-	X	B	B	Dibutyl Ether	-	X	X	X
Cobalt Chlorite	-	A	A	A	Dibutyl Phthalate	X	B	X	C
Coca-Cola	-	A	A	B	Dibutyl Sebacate	-	B	X	B
Cocoa Butter	-	X	A	A	Dibutylamine	-	X	X	X
Coconut Grease	-	X	A	A	Dichloro Acetic Acid	-	X	X	X
Coconut Oil	-	X	A	A	Dichloro Acetic Acid Methylester	-	A	X	X

\*organic/inorganic acids, please contact our specialists technical team



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Chemical	SBR	EPDM	NBR	FKM	Chemical	SBR	EPDM	NBR	FKM
Dichlorobutane	-	X	B	A	Dioxolane	-	B	X	X
Dichlorobutylene	-	X	X	B	Dipentene	-	X	B	A
Dichloroethane	-	X	X	B	Diphenyl	-	X	X	A
Dichloroethylene	-	X	X	B	Diphenyl Ether	-	X	X	B
Dichloro-iso-propylene ether	-	X	X	X	Diphenyle Oxide	-	X	X	A
Dichloromethane	-	X	X	B	Dipropylene Glycol	-	B	B	B
Dichloropentane	-	X	X	A	Dithionite	-	A	B	A
3,1-Dichloropropene	-	X	X	-	Divinyl Benzene	-	X	X	A
Dichlorobenzene	-	X	X	A	DMT (Dimethyl Terephthalate)	-	A	X	A
Dicyclohexylamine	-	X	X	X	DNCB (Dinitrochlorobenzene)	-	X	X	A
Diesel Fuel	-	X	A	A	Dodecanol	-	B	B	A
Diesel Oil	-	X	A	A	Domestic Fuel Oils	-	X	A	A
Diesel Oil 65°C	X	X	A	A	Dowtherm A	-	X	X	A
Diethanolamine	-	B	X	X	Dowtherm E	-	X	X	A
Diethyl Amin	-	B	X	X	Duodecanol (Lauryl alcohol)	-	B	B	A
Diethyl Aniline	-	A	X	X	Epichlorhydrin	-	B	X	X
Diethyl Benzene	-	X	X	A	Essential Oils	-	X	X	B
Diethyl Carbonate	-	X	X	A	Ethane	-	X	A	A
Diethyl Ether	-	B/C	X	X	Ethanol Amine	-	B	C	X
Diethyl Formaldehyde	-	A	X	X	Ether	-	C	X	X
Diethyl Hydrazine	-	A	C	X	Ethyl Acetate	-	B/C	X	X
Diethyl Maleate	-	A	C	X	Ethyl Alcohol, Ethanol	-	A	A	X
Diethyl Sebacate	-	B	X	B	Ethyl Benzene	-	X	X	B
Diethyl Sulfate	-	-	X	X	Ethyl Bromide	-	X	B	A
Diethylene Glycol	-	A	A	A	Ethyl Cellulose	-	B	B	X
Diethylene Triamine	-	A	X	X	Ethyl Ether	X	X	C	X
Diglycolic Acid	-	A	X	A	Ethyl Hexanole	-	A	A	A
Dihexyl Phthalic Acid Ester	-	-	X	X	Ethyl Oxalate	-	A	X	A
Dihydroxy Tartaric Acid (Tartaric Acid)	-	B	A	A	Ethyl Pentachlorobenzene	-	X	X	A
1,4-Dihydroxybenzene	-	B	X	X	Ethyl Pyridine	-	A	X	C
Di-Isobutyl Ketone	-	A	X	X	Ethyl Sulfate (Diethyl Sulfate)	-	A	X	X
Di-Isobutylene	-	X	B	A	Ethylacrylate	-	-	X	X
Di-Isooctyl Sebacate	-	B	X	B	Ethylchloride	-	B	X	B
Di-Isopropyl Benzene	-	X	X	A	Ethylchloroacetate	-	B	B	A
Di-Isopropyl Ketone	-	A	X	X	Ethylene	-	X	A	A
Dimethyl Amine	-	B	X	X	Ethylene Bromide	-	C	X	A
Dimethyl Aniline	-	B	X	X	Ethylene Chloride	-	B	-	B
Dimethyl Ether	-	A	X	X	Ethylene Chlorohydrin	-	B	X	X
Dimethyl Formamide	-	A/B	X	X	Ethylene Diamine	-	A	X	X
Dimethyl Hydrazine	-	A	B	X	Ethylene Dibromide	-	X	X	A
Dimethyl Ketone	-	A	X	X	Ethylene Dichloride	-	X	X	A
Dimethyl Phenol	-	X	X	X	Ethylene Glycol (Antifreeze)	A	A	A	A
Dimethyl Phthalate	-	B	X	B	Ethylene Glycol 65°C	A	A	A	A
Dimethylbutane	-	X	A	A	Ethylene Glycol Ethylether (Cellosolve)	-	B	X	X
Dinitro Toluene	-	X	X	X	Ethylene Oxide	-	B	X	X
Dinitrogene Oxid	-	B	A	A	Ethylene Silicate	-	A	A	A
Diocetyl Amine	-	A	X	X	Ethylene Trichloride	-	C	X	B
Diocetyl Phthalate (DOB)	X	B	X	B	Fats (animal/vegetable)	-	X	A	A
Diocetyl Sebacate	-	B	X	B	Fatty Acids	-	X	B	A
Dioxane	-	B	X	X	Ferric Chloride Solution	-	A	A	A



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Ferric Chloride 65°C	A	A	A	A	Gasoline, Reg	X	X	A	A
Ferric Nitrates	-	A	A	A	Gasoline, Lead Free	X	X	A	A
Ferric Sulfate (Ferric Vitrinol)	-	A	A	A	Gasoline, 100 Octane	-	X	A	A
Ferric Sulfate Solution	-	A	A	A	Gasoline, 130 Octane	-	X	A	A
Fir Oil	-	X	B	A	Gasoline, Aromatic	-	X	A	A
Fish Oil	-	X	A	A	Gasoline, Ethyl and Regular	-	X	A	A
Fluorine	X	X	X	X	Gasoline, Refined	-	X	A	A
Fluorobenzene	-	X	X	B	Gasoline, Sour	-	X	A	A
Fluorosilicic Acid	-	A	B	A	Gasoline, with Mercaptan	-	X	A	A
Formaldehyde (Formalin-Solution)	-	A	C	X	Gasoline/Alcohol Mix	-	X	B	B
Formaldehyde (Methanal)	-	A	B	B	Gelatin	-	A	A	A
Formamide	-	A	B	B	Generator Gas	-	X	A	A
Formic Acid	A	B	X	X	Glauber's Salt	-	A	B	B
Freon 11	X	X	A	B	Glucose solution	-	A	A	A
Freon 112	X	X	B	B	Glucose, aqueous	-	A	A	A
Freon 113	B	X	A	B	Glycerin (Glycerol)	-	A	A	A
Freon 114	A	A	A	B	Glycerol	-	A	A	A
Freon 114 B2	-	X	B	B	Glycerol Chlorohydrin	-	B	X	B
Freon 115	A	A	A	B	Glycerol Triacetate (Triacetin)	-	A	B	X
Freon 12	X	B	B	B	Glycerol Trinitrate (Nitroglycerin)	-	A	X	A
Freon 13	A	A	A	B	Glycine	-	A	B	A
Freon 13 B1	-	A	A	B	Glycolic Acid	-	A	A	B
Freon 134 a	-	A	-	-	HEF-3	-	X	B	A
Freon 14	-	A	A	B	Helium Gas	-	A	A	A
Freon 142 b	-	A	A	X	Heptane	-	X	A	A
Freon 152 a	-	A	A	X	Hexachloro Acetone	-	A	X	X
Freon 21	X	X	X	X	Hexachloro Butadiene	-	X	X	A
Freon 218	-	A	A	A	Hexachloro Cyclohexane (Lindane)	-	X	-	A
Freon 22	X	A	X	X	1-Hexadecanol	-	A	A	-
Freon 31	B	A	X	X	Hexafluorosilicic Acid	-	B	B	A/B
Freon 32	A	A	A	X	Hexaldehyd	-	A	X	X
Freon 502	-	A	B	B	Hexalin (Cyclohexanol)	-	X	A	A
Freon BF	-	X	B	A	Hexamine	-	A	X	X
Freon C316	-	A	A	-	Hexanal (Capronaldehyde)	-	B	-	X
Freon C318	-	A	A	B	Hexane	X	X	A	A
Freon MF	-	X	B	B	Hexanetriol	-	A	A	A
Freon PCA	-	X	A	B	Hexene	-	X	B	A
Freon TA	-	A	A	X	Hexyl Alcohol	-	B	A	A
Freon TC	-	B	A	A	Hydrazine	-	A	B	C
Freon TF	-	X	A	A	Hydrazine Hydrate	-	A	B	C
Freon TMC	-	B	B	A	Hydrobromic Acid	-	A	X	A
Freon T-P35	-	A	A	A	Hydrochlorique Acid (Muriatic Acid) 37%	-	B	X	A
Freon TWD602	-	A	B	A	Hydrochloric Acid 37% 52°C	B	B	C	A
Fruit Juices	-	A	B	B	Hydrochloric Acid 100%	-	C	-	C
Fumaric Acid	-	-	A	A	Hydrocyanic Acid	-	A	B	A
Furan	-	X	X	X	Hydrofluoric Acid (cold)	-	B	X	B
Furfural (Furfurylaldehyde)	X	-	C	-	Hydrofluoric Acid (hot)	-	X	X	X
Furfurylalcohol	-	-	-	-	Hydrogen Chloride Gas	-	A	X	A
Gallic Acid	-	B	A	A	Hydrogen Fluoride	-	A/B	X	-
Gas Oil	-	X	A	A	Hydrogen Peroxide 10%	C	X	C	-



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Chemical	SBR	EPDM	NBR	FKM	Chemical	SBR	EPDM	NBR	FKM
Hydrogen Peroxide, concentrated	-	X	X	A-C	Lead Sulfate	-	A	B	A
Hydrogen Peroxide 90%	X	C	X	B	Lemon Juice	-	A	A	A
Hydrogen Sulfide	-	C	X	X	Ligroin	-	X	A	A
Hydrogen, Gas	-	A	A	A	Lindol	-	A	X	X
Hydrogene Bromide, unhydrous	-	X	X	A	Linoleic Acid	-	X	B	A
Hydrogensulfite Leach	-	A	X	A	Linseed Oil	-	C	A	A
Hydroquinone	-	B	X	X	Liqueurs	-	A	A	A
Hydroxy Acetic Acid	-	A	X	X	Liquified Petroleum Gas	X	X	A	A
Hydroxylamine	-	A	A	A	Lithium Bromide Brine	-	A	A	A
Hydroxylamine Sulfate	-	A	A	A	Lithium Chloride	-	A	A	A
Hypochlorous Acid	-	B	X	A	Lithium Hydroxide	-	A	X	-
Ink	-	A	A	B	Lubricating Oils	X	X	A	A
Iodine	-	B	B	A	Machinery Oil (mineral)	-	X	A	A
Iodine tincture	-	B	B	A	Maganese Chloride (Solution)	-	A	A	A
Iodoform	-	A	-	A	Magnesium Acetate Solution	-	A	X	X
Iso-Butane	-	X	A	A	Magnesium Chloride Solution	-	A	A	A
Iso-Butyl Alcohol	-	A	B	B	Magnesium Hydroxide (Solution)	-	A	B	B
Iso-Butyl Methyl Ketone	-	A	X	X	Magnesium Silicate (Talcum)	-	A	A	A
Iso-Butylene	-	X	A	A	Magnesium Sulfate (Epson Salts)	-	A	A	A
Iso-Butyraldehyde	-	A	X	X	Maleic Acid	-	A	B	A
Iso-Cyanate	-	A	-	-	Maleic Anhydride	-	X	X	B
Iso-Dodecane	-	X	A	A	Malic Acid	-	B	A	A
Iso-Octane	-	X	A	A	Margarine	-	X	A	A
Iso-Pentane	-	X	A	A	Mayonaise	-	X	A	X
Iso-Propyl-Acetate	-	B	X	X	Menthol	-	B	B	A
Iso-Propyl-Alcohol	-	A	B	A	Mercaptans	-	A	X	X
Iso-Propyl-Benzene	-	X	X	A	Mercuric Chloride Solution	-	A	A	A
Iso-Propyl-Chloride	-	X	X	A	Mercury	-	A	A	A
Iso-Propyl-Ether	-	A	X	X	Mercury Nitrate	-	A	A	-
Jet Fuel JP3	-	X	A	A	Mesityl Oxide	-	A	X	X
Jet Fuel JP4	-	X	A	A	Methacrylic Acid	-	B	X	X
Jet Fuel JP5	-	X	A	A	Methanal	-	A	B	B
Jet Fuel JP6	-	X	A	A	Methane	X	X	A	A
JP3 (Fuel)	-	X	A	A	Methoxy Benzene	-	X	X	X
JP4 (Fuel)	-	X	A	A	Methoxy Butanol	-	B	A	A
JP5 (Fuel)	-	X	A	A	Methyl Acetate	-	A	X	X
JP6 (Fuel)	-	X	A	A	Methyl Acetoacetate	-	A	X	X
JPX (Fuel)	-	X	A	X	Methyl Acrylate	-	B	X	X
Kerosene	X	X	A	A	Methyl Alcohol (Methanol)	A	A	B	C
Ketchup	-	A	A	A	Methyl Amine	-	A	X	X
Lactams	-	X	X	X	Methyl Aniline	-	B	X	B
Lactic Acid	-	B	B	A	Methyl Bromide	-	X	X	A
Lanolin	-	X	A	A	Methyl Butyl Ketone	-	A	X	X
Latex	-	A	A	A	Methyl Carbonate	-	X	X	X
Laughing Gas (N2O)	-	B	A	A	Methyl Cellosolve	-	B	X	X
Lavender Oil	-	X	B	A	Methyl Cellulose	-	B	B	B
Lead Acetate Salt Solution	-	A	C	X	Methyl Chloride	-	B	X	B
Lead Arsenate	-	A	A	-	Methyl Cyclopentane	-	X	X	B
Lead Nitrate	-	A	A	A	Methyl Ethyl Ketone (MEK)	X	B	X	X
Lead Nitrate Solution	-	A	A	-	Methyl Formate	-	B	X	X



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Chemical	SBR	EPDM	NBR	FKM	Chemical	SBR	EPDM	NBR	FKM
Methyl Glycol	-	B	X	X	Nitrogen Gas	-	A	A	A
Methyl Glycol Acetate (Ethylene glycol)	-	B	X	X	Nitrogen Tetroxide	-	X	X	X
Methyl Iso-Butyl Ketone (MIBK)	X	B	X	X	Nonanol	-	A	X	A
Methyl Iso-Propyl Ketone	-	A	X	X	Nut Oil	-	X	A	A
Methyl Methacrylate	-	X	X	X	Octadecane	-	X	A	A
Methyl Methacrylic Acid Ester	-	X	X	X	Octal	-	B	X	B
Methyl Oleate	-	B	X	A	Octane	-	X	B	A
Methyl Phenyl Ether (Anisole)	-	X	X	X	Octanol (Octylalcohol)	-	A	B	A
Methyl Pyrrolidone	-	A	X	X	Octylalcohol	-	B	B	A
Methyl Salicylate	-	B	X	-	Octylcresol	-	X	C	B
Methylene Chloride	-	X	X	B	Oil of Turpentine	-	X	B	A
2-Methylpentane	-	X	A	A	Olefin, crude	-	X	A	A
3-Methylpentane	-	X	A	A	Oleic Acid	-	X	A	A
Milk	-	A	A	A	Oleic Alcohol	-	A	A	A
Milk of Lime	-	A	X	B	Oleum (Sulfuric Acid, 0 to 50%)	-	A	X	A
Mineral Oil	-	X	A/B	A	Olive Oil	-	X	A	A
Mineral Spirits	-	X	A	A	Ortho Dichloro Benzene	-	X	X	A
Molasses	-	A	A	A	Oxalic Acid	-	A	B	A
Monobromobenzene	-	X	X	B	Oxygen, Cold	B	A	B	A
Monochloroacetic Acid	-	A	X	X	Ozone	X	A/B	X	A
Monochloroacetic Acid Ethyl Ester	-	B	X	X	Palm Kernel Oil	-	X	A	A
Monochlorobenzene	-	X	X	B	Palm Oil	-	X	A	A
Monoethanol Amine	-	B	X	X	Palmitic Acid	-	C	B	A
Mononitrochlorobenzene	-	X	X	A	Para Dichloro Benzene	-	X	X	A
Morpholine	-	B	X	-	Paraffin	-	X	A	A
Muriatic Acid (HCl) (Hydrochloric Acid)	-	B	X	A	Paraffin Oil	-	X	A	A
Muriatic Acid (HCl), diluted	-	A	B	A	Peanut Oil	-	X	A	A
Naphtha	X	X	X	A	Pectin	-	A	A	A
Naphthalene	-	X	X	A	Penta Chloro Diphenyl	-	X	X	C
Naphthenic Acid	-	X	B	A	Penta Chloro Phenol	-	B	X	-
Naphtolen ZD	-	X	B	A	Pentane	-	X	A	A
Natural Gas	X	X	A	A	Pentanol	-	A	B	B
Neats Foot Oil	-	B	A	A	Perachloroethylene	X	X	X	A
Neon Gas	-	A	A	A	Perchloric Acid	-	B	X	A
Nickel Acetate	-	A	B	X	Perchloro Ethylene	-	X	X	B
Nickel Chloride	-	A	A	A	Petroleum	-	X	A	A
Nickel Nitrate	-	A	A	A	Petroleum Ether	-	X	A	A
Nickel Sulfate	-	A	A	A	Phenol	-	X	X	B
Nitrating Acids	-	A	X	X	Phenol 52°C	C	C	X	A
Nitric Acid, concentrated	-	X	X	B	Phenyl Benzene	-	X	X	B
Nitric Acid, fuming	-	X	X	B	Phenyl Ether	-	X	X	X
Nitric Acid 10% 79°C	X	C	X	X	Phenyl Hydrazine	-	X	X	B
Nitric Acid 30% to 70%	X	X	X	C	Phosphine	-	A	X	B
Nitric Acid, Red Fuming	X	X	X	X	Phosphoric Acid	-	B	X	A
Nitro Benzene	-	X	X	X	Phosphoric Acid 45%	-	A	B	A
Nitro Glycerin	-	A	X	A	Phosphorous Trichloride	-	A	X	A
Nitro Glycol	-	A	X	A	Photographic Developing Bath	-	B	A	A
Nitro Methane	-	B	X	X	Phthalic Acid	-	A	B	B
Nitro Propane	-	B	X	X	Phthalic Anhydride	-	A	-	-
Nitro Toluene	-	X	X	X	Picoline, alpha	-	A	-	X





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Chemical	SBR	EPDM	NBR	FKM	Chemical	SBR	EPDM	NBR	FKM
Picric Acid, Aqueous Solution	-	B	B	A	Rapeseed Oil	-	X	B	A
Pine Oil	-	X	B	A	Roast Gas (dry)	-	A	A	A
Pineapple Juice	-	A	A	A	Rosin (Colophony)	-	A	A	A
Pinene	-	X	B	A	Salicylic Acid	B	A	B	A
Piperidine	-	X	X	X	Sea Water	A	A	A	B
Polyvinyl Acetates	-	A	-	X	Sewage	C	A	A	A
Potassium Acetate	-	A	B	B	Silicone Grease	-	A	A	A
Potassium Aluminium Sulfat	-	A	-	-	Silicic Acid	-	A	A	A
Potassium Bicarbonate	-	A	A	A	Silicon Dioxide	-	A	A	A
Potassium Bisulfate	-	A	A	A	Silicone Oil	-	A	A	A
Potassium Borate	-	A	A	A	Silver Cyanide Solution	-	X	X	A
Potassium Bromate	-	A	A	A	Silver Nitrate	-	A	B	A
Potassium Bromide	-	A	A	A	Silver Salts	-	A	A	A
Potassium Carbonate	-	A	A	A	Skydrol 500	-	A	X	X
Potassium Chlorate	-	A	X	A	Skydrol 7000	-	A	X	B
Potassium Chloride	-	A	A	A	Skydrol Hydraulic Fluids	X	A	X	B
Potassium Chromate	-	A	B	A	Soap Solution	-	A	A	A
Potassium Cyanide	-	A	A	A	Soda (Sodium Carbonate)	-	A	A	A
Potassium Dichromate	-	A	A	A	Sodium Acetate	-	A	B	X
Potassium Hydroxide (Solution 50%)	-	A	B	C	Sodium Benzoate	-	A	A	A
Potassium Hydroxide, Potassium Lye	-	A	B	X	Sodium Bicarbonate Solution	-	A	A	A
Potassium Hydroxide 65°C	B	A	B	C	Sodium Bisulfate Solution	-	A	A	A
Potassium Hypochlorite (Javelle water)	-	B	B	A	Sodium Bisulfite Solution	-	A	A	A
Potassium Iodide	-	A	A	A	Sodium Borate (Borax)	-	A	B	A
Potassium Nitrate	-	A	B	A	Sodium Carbonate (Soda Ash)	-	A	A	A
Potassium Perchlorate	-	A	X	A	Sodium Carbonate Solution	-	A	A	A
Potassium Perfluoroacetate	-	A	B	X	Sodium Carbonate 65°C	A	A	A	A
Potassium Permanganate	-	A	X	A	Sodium Chlorate	-	A	B	A
Potassium Persulfate	-	A	X	A	Sodium Chloride (Common Salt)	-	A	A	A
Potassium Phosphate	-	A	A	A	Sodium Chloride Solution	-	A	A	A
Potassium Sulfate	-	A	A	A	Sodium Chlorite	-	A	X	A
Potassium Sulfite	-	A	A	A	Sodium Cyanide Solution	-	A	B	-
Propane	-	X	A	A	Sodium Dichromate	-	A	B	A
Propane Gas	X	X	A	A	Sodium Fluoride	-	A	A	A
Propanol	-	A	B	A	Sodium Hydroxide	-	A	B	C
2-Propanone (Acetone)	-	A	X	X	Sodium Hydroxide 65°C	B	A	B	C
2-Propene-1-ol	-	A	B	A	Sodium Hydroxide, Caustic Soda	-	A	B	B
Propinyl Alcohol	-	A	A	A	Sodium Hydroxide Caustic Soda 65°C	B	A	B	C
Propion Aldehyde	-	A	X	X	Sodium Hypochlorite Solution	-	A	B	A
Propionic Acid	-	B	A	A	Sodium Nitrate	-	A	B	A
Propyl Acetate	-	B	X	X	Sodium Nitrite	-	A	X	A
Propyl Acetone	-	A	X	X	Sodium Peroxide Solution	-	A	B	A
Propyl Amine	-	X	X	X	Sodium Phosphate	-	A	A	A
Propyl Nitrate	-	A	X	X	Sodium Silicate Solution	-	A	A	A
Propylene	-	X	X	A	Sodium Sulfate Solution (Glauber's Salt)	-	A	B	B
Propylene Dichloride	-	X	X	-	Sodium Sulfhydrate Solution	-	A	A	A
Propylene Glycol	-	A	A	A	Sodium Sulfide	-	A	B	A
Propylene Oxide	-	B	X	X	Sodium Sulfite Solution	-	A	A	A
Pyridine	-	B	X	B	Sodium Tetraborate Solution	-	A	B	A
Pyrrrole	-	X	X	X	Sodium Thiosulfate (Antichlor)	-	A	B	A





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Chemical	SBR	EPDM	NBR	FKM	Chemical	SBR	EPDM	NBR	FKM
Soy Bean Oil	-	X	A	A	Triethanolamine	-	A	-	-
Sperm Oil	-	B	A	A	Triethyl Borane	-	-	-	A
Spermacetin	-	X	A	A	Triethyl Glycol	-	A	A	A
Spirits	-	A	A	A	Triethylaluminium	-	X	-	B
Stannic Chloride Solution	-	A	A	A	Trifluoro Ethane	-	X	X	A
Starch	-	A	A	A	Tri-Iso-Propyl Benzene	-	X	A	A
Stearic Acid	-	B	B	A	Trinitrotoluene (TNT)	-	X	X	B
Stoddard Solvent	-	X	A	A	Trioctyl Phosphate	-	A	X	B
Styrene	-	X	X	A	Trisodium Phosphate Solution	-	A	A	A
Succinic Acid	-	A	A	A	Turpentine	-	X	A	A
Sucrose Sap	-	A	A	A	Urea	-	A	A	A
Sugar Solutions	-	A	A	A	Vaseline	-	X	A	A
Sulfur	-	A	X	A	Vaseline Oil	-	X	A	A
Sulfur Chloride	-	X	X	A	Vegetable Juices	-	A	A	A
Sulfur Dioxide (SO2)	-	A	X	B	Vegetable Oils	X	X	A	A
Sulfur Dioxide Liquid (anhydrous)	-	A	X	X	Vinegar	-	A	B	B
Sulfur Dioxide, gaseous	-	A	X	X	Vinyl Acetate	-	-	-	-
Sulfur Hexafluoride (SF6)	-	A	B	B	Vinyl Chloride, liquid	-	-	-	-
Sulfuric Acid (0 to 50%)	-	A/B	X	A/B	Vinylidene Chloride	-	X	X	B
Sulfuric Acid, diluted	-	A	B	A	Waste Gas (cont. Carbon Dioxide)	-	A	A	A
Sulphuric Acid, 25% 65°C	C	B	X	A	Waste Gas (cont. Carbon Monoxide)	-	A	A	A
Sulphuric Acid, 25%/50% 38°C	X	-	X	-	Waste Gas (cont. Hydrogen Chloride)	-	A	B	A
Sulphuric Acid, Fuming	X	X	X	X	Waste Gas (cont. Hydrogen Fluoride)	-	A	A	A
Sulfurous Acid	-	B	-	A	Waste Gas (cont. Nitrous Fumes)	-	A	-	A
Talcum	-	A	A	A	Waste Gas (cont. Sulfur Dioxide)	-	A	B	A
Tallow	-	B	A	A	Waste Gas (cont. Sulfuric Acid)	-	A	X	A
Tannins	-	B	B	A	Water Steam, Under 149°C**	X	A	X	X
Tar	-	X	X	B	Water Steam, Over 149°C	X	X	X	X
Tartaric Acid	-	B	A	A	Water to +135 °C / +275 °F	-	A	X	C
Tetrachloroethane	X	X	X	B	Water to +80 °C / +176 °F	-	A	B	B
Tetrachloroethylene	X	X	X	A	Water, Fresh 82°C	A	A	A	A
Tetrachloromethane	-	X	X	A	Water, Salt 62°C	A	A	C	A
Tetraethyl Lead	X	X	B	A	Water vapour < +140 °C / +284 °F	-	A	X	X
Tetrahydrofuran	-	X	X	X	Water vapour > +140 °C / +284 °F	-	B	X	X
Thionyl Chloride	-	B	X	A	Wax Alcohols	-	X	A	A
Thiophene	-	X	X	X	Wine + Whiskey	A	A	A	A
Titanium Tetrachloride	-	B	B	B	White Liquor	A	X	A	-
Toluene (Toluol)	X	X	X	B	White Oil	X	X	A	A
Transformer Oil	-	X	B	A	Wood Spirit	-	A	B	C
Triacetin (Glycerine Triacetate)	-	A	B	X	Wood Alcohol (methanol)	A	X	A	X
Triaryl Phosphate	-	A	X	A	Xenon	-	A	A	A
Tributoxy Ethyl Phosphate	-	B	X	B	Xylene (Xylo)	X	X	X	B
Tributyl Mercaptane	-	X	X	A	Xylidines (aromatic Amines)	-	B	X	X
Tributyl Phosphate	-	B	X	X	Yeast	-	A	A	A
Trichloro Benzene	-	X	-	A	Zeolites	-	A	A	A
Trichloro Ethane	X	B/C	X	A	Zinc Acetate	-	A	B	B
Trichloro Ethyl Phosphate	-	-	X	X	Zinc Chloride Solutions	-	A	A	A
Trichloro Ethylene	X	B/C	X	B	Zinc Sulfate	-	A	A	A
Trichloroacetic Acid	-	B	B	X					
Tricresyl Phosphate	-	B	X	B					

\*\* For long term / continuous exposure to water steam the following materials are advised:  
 Up to 60°C - Sulphur Cured EPDM / Up to 125°C - Peroxide Cured EPDM  
 For short term / intermittent exposure to water steam, the following materials are advised:  
 Up to 90°C - Sulphur Cured EPDM / Up to 150°C - Peroxide Cured EPDM



# Chemical Compatibility Guide

The information in the chemical compatibility guide is intended to be for general reference purposes only and is based on research and tests that were conducted under laboratory conditions, predominantly at room temperature (unless otherwise stated).

Real world applications can vary especially in instances where more than one chemical may be used which can in effect, create a 'cocktail' of chemicals thus making it difficult to predict the effect they may have on the materials used in the seal. Higher temperatures can also cause some fluids to have a stronger effect on the elastomer used. Any reliance on information is therefore at the user's own risk.

While every effort is made to ensure the accuracy of information in the chart is correct, VIP will not be liable for any loss, damage, claim or expense directly or indirectly arising or resulting from the use of any information provided in this guide.

For further information on the suitability or recommendation of any particular material, please contact our technical team.