

TECHNICAL SPECIFICATIONS



O-RINGS




Table of contents

PCC O-rings

Designations & Applications	3
Storage guidelines.....	3
Chemical compatibility.....	4

PCC O-rings

Designations & Applications

Color	black	green (Viton)	yellow	
				
DIN/ISO 1629 ASTM D1418	EPDM EPDM	FPM FKM	HNBR NEM	
Dimensions	12 – 163,3 mm	15 – 168,3 mm	12 – 168,3 mm	
Applications	drinking water fire-fighting water rainwater purified water water heating systems circulation pipes demineralised water	compressed air systems heating oil mineral oil fats solar systems	Gas installations with naturals gas (NG) and liquefied petroleum gas (LPG) <i>other gases on request only</i>	drinking water water heating systems
Temperature range	-10°C / + 110°C (120°C)	-30°C / + 180°C (230°C)	-20°C / + 70°C	-20°C / + 95°C
Pressure	16 bar	16 bar	5 bar	16 bar
Pressure class			MOP5/GT1	

Guidelines for storage of polymer products (o-rings)

- ✓ welded in polyethylene bags
- ✓ temperature + 5°C / + 20°C
- ✓ avoid traction, pressure and deformation
- ✓ protect of direct sunlight, intense light und radiation
- ✓ ozone-free
- ✓ relative air humidity max. 70 %
- ✓ avoid contact with metals, liquids and vapours
- ✓ avoid contact with other elastomer
- ✓ initial storage period EPDM and FPM/FKM - 10 years, HNBR - 7 years
(unassembled, depending on the storage conditions and product properties)

PCC O-rings

Chemical compatibility

Rating system

A = very good suitability - little or no effect on physical properties

B = good suitability - little effect on physical properties

C = conditionally suitable - loss of physical properties

U = unsuitable

- = insufficient values

Chemical	EPDM	FPM/FKM	HNBR
Acetaldehyde	B	U	U
Acetamide	A	U	A
Acetic Acid	A	C	C
Acetic Acid Chloride	U	A	U
Acetic Acid Vapors	A	U	U
Acetic acid, 96-99,5% (Glacial)	B	U	U
Acetic Anhydride	B	U	U
Acetone	A	U	U
Acetophenone	A	U	U
Acetylacetone	A	U	U
Acetylchloride	U	A	U
Acetylene Gas	A	A	A
Acetylene Tetrabromide	A	A	U
Acrolein	A	U	C
Acrylonitrile	U	U	U
Adipic Acid	A	A	A
Adipic Aciddiethylester	A	U	U
Aero Lubriplate	U	A	A
Aero safe 2300	A	U	U
Aero safe 2300 W	A	U	U
Aero Shell 1 AC Grease	U	A	A
Aero Shell 17 Grease	U	A	A
Aero Shell 7 A Grease	U	A	A
Aero Shell 750	U	A	B
Aero Shell Fluid 4	U	A	A
Aerozene 50 (50%Hydrazine, 50% UDMH)	A	U	U
Air	A	A	A
Alcohol (Methanol)	A	C	B
Alkyl Arylsulphonic Acid	A	U	C
Alkyl Benzene	U	A	U
Allyl Alcohol (2-Propene-1-ol)	A	B	B
Allyl Chloride (3-Chloro-1-Propene)	U	-	U
Allyl Ketone	A	U	U
Aluminium Acetat	A	U	B
Aluminium Bromide	A	A	A
Aluminium Fluoride	A	A	A
Aluminium Nitrate	A	A	A
Aluminium Phosphate	A	A	A
Aluminium Sulfate	A	A	A
Aluminium-Potassiumsulfate Solution	A	-	-
Aluminum Chloride Solution	A	A	A
Aluminum Hydroxide Solution	A	A	A

Chemical	EPDM	FPM/FKM	HNBR
Aluminum Sulphate Solution	A	A	A
Ambrex 33 (Mobile)	U	A	A
Ambrex 830 (Mobile)	U	A	A
Amines, primary (such as Methyl, Ethyl, Propyl, Allyl)	A	U	U
Aminoacetic Acid	A	A	B
Ammonia (gas)	A	U	A
Ammonia (gas, hot)	B	U	U
Ammonia (liquid)	A	U	B
Ammonia Solution	A	U	B
Ammonia, anhydrous	A	U	A
Ammonia, aqueous Solution	A	U	C
Ammonia-Lithium	B	U	B
Ammonium Acetate	A	U	A
Ammonium Carbonate	A	U	A
Ammonium Carbonate Solution	A	-	U
Ammonium Chloride	A	A	A
Ammonium Chloride Solution	A	-	A
Ammonium Fluoride	A	B	A
Ammonium Hydroxide	A	U	U
Ammonium Hydroxide Solution	A	U	U
Ammonium Nitrate Solution	A	-	A
Ammonium Nitrite	A	-	A
Ammonium Phosphate, Monobasic, Dibasic, Tribasic)	A	-	A
Ammonium Sulfate Solution	A	U	A
Ammonium Sulfide	A	U	B
Ammonium Thiocyanate	A	-	A
Amyl Acetate	A	U	U
Amyl Alcohol	A	B	B
Amyl Borate	U	-	A
Amyl Chloride	U	A	U
Amyl Naphtalene	U	A	U
Anderol L-774	U	A	A
Aniline Chlorohydrate	B	B	B
Aniline Liquid	A	U	U
Animal Fats	B	A	A
Anisole	U	U	U
Antimony Chloride	A	A	A
Antimony Chloride, dry	A	A	A
Aqua Regia (Nitric Acid/Hydrochloric Acid)	U	U	U
Argon Gas	A	A	A
Aromatic Fuels (up to 50% Aromatic)	U	A	A
Aromatic Hydrocarbons (100% Aromatic)	U	A	U
Arsenic Acid	A	A	A
Arsenic Acid, Solution	A	A	A
Asphalt, Emulsion	U	A	B
ASTM Test Fuel A	U	A	A
ASTM Test Fuel B	U	A	A
ASTM Test Fuel C	U	A	B
ASTM-Oil IRM 902	U	A	A
ASTM-Oil IRM 903	U	A	A
ASTM-Oil No.1	U	A	A
ATM-Brake Fluid (Glycolbased)	A	U	U
Automatic-Transmission Fluid	U	A	A

Chemical	EPDM	FPM/FKM	HNBR
Automotive Gasoline	U	A	A
Barium Carbonate	A	A	A
Barium Chloride Solution	A	A	A
Barium Hydroxide Solution	A	A	A
Barium Nitrate Solution	A	A	A
Barium Sulfate	A	A	A
Barium Sulfide Solution	A	A	A
Battery Acid (Sulfuric Acid diluted)	A	A	U
Beef Tallow	U	A	A
Beer	A	A	A
Beet Sugar Sap	A	A	A
Benzaldehyde	B	U	U
Benzenesulfonic Acid	-	A	U
Benzine (Gasoline)	U	A	A
Benzine 50/Benzene 30/Ethanol 20	U	B	U
Benzine 50/Benzene 50	U	B	U
Benzine 60/Benzene 40	U	B	U
Benzine 70/Benzene 30	U	A	B
Benzine 80/Benzene 20	U	A	B
Benzoic Acid, Solution	B	A	B
Benzol (Benzene)	U	A	U
Benzophenone	B	A	-
Benzyl Alcohol	B	A	U
Benzyl Chloride	U	A	U
Biphenyl	U	A	U
Bitumen	U	A	U
Black Liquor	B	B	B
Blast Furnace Gas	U	A	U
Bleach Solution	A	A	U
Bleaching Powder Solution	A	A	C
Boiler Feed Water	A	B	B
Bone Oil	U	A	A
Borax (Sodiumborate)	A	A	B
Borax Solutions	A	B	B
Boric Acid	A	A	A
Brake Fluids (based on glycol ether)	A	U	U
Brake Fluids (based on mineral oil)	-	A	A
Bromine	U	B	U
Bromine Solution in Water	U	A	U
Bromine Vapour	U	B	U
Bromobenzene	U	A	U
Bromochlorotrifluoroethan	U	A	U
Bunker Oil	U	A	B
Butadiene	U	B	U
Butandiol	A	U	A
Butane	U	A	A
1-Butanethiol	U	A	U
Butanole	B	A	A
Butantriol	A	A	A
Butene	U	A	B
Buthylphenol	U	B	U
Butter	B	A	A
Buttermilk	A	A	A
Butyl Acetate	B/C	U	U

Chemical	EPDM	FPM/FKM	HNBR
Butyl Alcohol	A	A	A
Butyl Amine	-	U	U
Butyl Carbitol	A	C	U
Butyl Cellosolve	A	U	C
Butyl Diglycol	A	A	A
Butyl Phthalate	A	U	U
Butyl Pyrocatechol	B	A	U
Butyl Stearate	U	A	B
Butylbenzoate	A	A	U
Butylene	U	A	B
Butylether	U	U	U
Butyraldehyd	B	U	U
Butyric Acid	U	A	B
Butyric Acid Butyl Ester	B	B	U
Calcium Acetate	A	U	B
Calcium Bisulfate	A	A	A
Calcium Bisulfide Solution	A	B	B
Calcium Carbonate	A	A	A
Calcium Carbonate Slurry	A	A	A
Calcium Chloride	A	A	A
Calcium Chloride, brine	A	A	A
Calcium Cyanide	A	-	A
Calcium Hydroxide Solution	A	A	A
Calcium Hypochlorite Solution	A	A	C
Calcium Nitrate	A	A	A
Calcium Oxide	A	A	A
Calcium Phosphate Slurry	A	A	A
Calcium Silikate	A	A	A
Calcium Sulfate	A	A	A
Calcium Sulfide	A	A	A
Calcium Sulfite	A	A	A
Calcium Thiosulfate	A	A	B
Caliche Solution (Sodium Nitrate)	A	A	B
Campher	U	B	A
Campher Oil	U	B	A
Cane Sugar Sap	A	A	A
Carbitol	B	B	B
Carbolic Acid (Penole)	B	A	U
Carbolineum	B	A	B
Carbon Dioxide, dry	B	A	A
Carbon Dioxide, wet	B	A	A
Carbon Disulfide	U	A	U
Carbon Monoxide	A	B	A
Carbonic Acid	A	A	A
Carboxylic Acids	A	A	A
Casein	B	A	A
Castor Oil	B	A	A
Cellosolve (2-Etho-yethanol)	B	U	U
Celluloseacetat	B	U	A
Chile Salpetre (Sodium Nitrate)	A	A	B
Chinawood Oil	U	A	A
Chloracetic Acid	A	U	U
Chloracetic Acid Ethylester	U	A	U
Chloric Acid	B	B	U
Chloride of Lime	A	A	U

Chemical	EPDM	FPM/FKM	HNBR
Chlorine Dioxide	C	A	U
Chlorine gas, anhydrous	A	A	C
Chlorine Water	B	A	U
Chlorine, liquid	B	A	U
Chloroacetaldehyde	A	U	U
Chloroacetone	A	U	U
Chloroamine	A	U	A
Chlorobenzene	U	B	U
Chlorobromomethane	B	B	U
Chlorobutadiene	U	B	U
Chloroform	U	B	U
Chloromethyl Ether	C	U	U
Chloronaphthalene	U	A	U
(o)-Chlorophenol	U	A	U
Chlorosulfonic Acid	C	U	U
Chlorothene	U	B	U
Chlorotoluene	U	A	U
Chrome Alum	A	A	A
Chromic Acid	C	A	U
Chromo sulfuric Acid	U	A	U
Cider	A	B	A
CIP fluids, acidic*	A	B	U
CIP fluids, alkaline	A	U	U
Citric Acid	A	A	A
Citrous Oils	U	A	B
Coal Tar	U	B	B
Cobalt Chlorite	A	A	A
Coca-Cola	A	B	A
Cocoa Butter	U	A	A
Coconut Grease	U	A	A
Coconut Oil	U	A	A
Coconut, Fatty Acid	U	A	A
Cod-liver Oil	B	A	A
Coffee	A	A	A
Coffee Extract	A	A	A
Coke Oven Gas	U	A	U
Copper Acetate Solution	B	U	U
Copper Ammonium Acetate	A	U	U
Copper Chloride, Solution	A	A	A
Copper Cyanide	A	A	A
Copper Fluoride	A	A	B
Copper Nitrate	A	A	B
Copper Sulfate (Blue Vitriol) Solution	A	A	A
Corn Oil	U	A	A
Cotton Oil	C	A	A
Cottonseed Oil	U	A	A
Cresol	U	A	U
Crtonaldehyde	A	U	U
Crude Oil	U	A	B
Cumene	U	A	U
Cuprous Ammonia Acetate Solution	A	U	U
Cyanic Acid	A	A	B
Cyanic Acid Solution	A	A	B
Cyclohexane	U	A	A
Cyclohexanole	U	A	B

Chemical	EPDM	FPM/FKM	HNBR
Cyclohexanone	U	U	U
Cyclohexylamine	C	U	U
(p)-Cymene	U	A	U
DDT Solutions (Kerosene Solvent)	U	A	A
DDT Solutions (Toluene Solvent)	U	A	U
Decalin (Decahydronaphtalene)	U	A	U
Decane	U	A	A
Dextrin	A	A	A
Dextrose	A	A	A
Di-Isobutyl Ketone	A	U	U
Di-Isobutylene	U	A	B
Di-Isooctyl Sebacate	B	B	U
Di-Isopropyl Benzene	U	A	U
Di-Isopropyl Ketone	A	U	U
Diacetone	A	U	-
Diacetone Alcohol	A	U	U
1,2-Diaminoethane	A	U	B
Diamylamine	A	U	U
Diazinone	U	B	U
Dibenzyl Sebacate	B	B	U
Dibenzylether	B	C	U
Dibromodifluoromethane	B	-	U
Dibromomethylbenzene	U	A	U
Dibutyl Ether	U	U	U
Dibutyl Phthalate	B	C	U
Dibutyl Sebacate	B	B	U
Dibutylamine	U	U	U
Dichloro Acetic Acid	U	U	U
Dichloro Acetic Acid Methyleneester	A	U	U
Dichloro-iso-propylene ether	U	U	U
Dichlorobutane	U	A	B
Dichlorobutylene	U	B	U
Dichloroethane	U	B	U
Dichloroethylene	U	B	U
Dichloromethane	U	B	U
Dichloropentane	U	A	U
3,1-Dichloropropene	U	-	U
Dichlorobenzene	U	A	U
Dicyclohexylamine	U	U	U
Diesel Fuel	U	A	A
Diesel Oil	U	A	A
Diethanolamine	B	U	U
Diethyl Amin	B	U	U
Diethyl Aniline	A	U	U
Diethyl Benzene	U	A	U
Diethyl Carbonate	U	A	U
Diethyl Ether	B/C	U	U
Diethyl Formaldehyde	A	U	U
Diethyl Hydrazine	A	U	C
Diethyl Maleate	A	U	C
Diethyl Sebacate	B	B	U
Diethyl Sulfate	-	U	U
Diethylene Glycol	A	A	A
Diethylene Triamine	A	U	U
Diglycolic Acid	A	A	U

Chemical	EPDM	FPM/FKM	HNBR
Dihexyl Phthalic Acid Ester	-	U	U
Dihydroxy Tartaric Acid (Tartaric Acid)	B	A	A
1,4-Dihydroxybenzene	B	U	U
Dimethyl Amine	B	U	U
Dimethyl Aniline	B	U	U
Dimethyl Ether	A	U	U
Dimethyl Formamide	A/B	U	U
Dimethyl Hydrazine	A	U	B
Dimethyl Ketone	A	U	U
Dimethyl Phenol	U	U	U
Dimethyl Phthalate	B	B	U
Dimethylbutane	U	A	A
Dinitro Toluene	U	U	U
Dinitrogene Oxid	B	A	A
Diocetyl Amine	A	U	U
Diocetyl Phthalate	B	B	U
Diocetyl Sebacate	B	B	U
Dioxane	B	U	U
Dioxolane	B	U	U
Dipentene	U	A	B
Diphenyl	U	A	U
Diphenyl Ether	U	B	U
Diphenyle Oxide	U	A	U
Dipropylene Glycol	B	B	B
Dithionite	A	A	B
Divinyl Benzene	U	A	U
DMT (Dimethyl Terephthalate)	A	A	U
DNCB (Dinitrochlorobenzene)	U	A	U
Dodecanol	B	A	B
Domestic Fuel Oils	U	A	A
Dowtherm A	U	A	U
Dowtherm E	U	A	U
Duodecanol (Lauryl alcohol)	B	A	B
Epichlorhydrin	B	U	U
Essential Oils	U	B	U
Ethane	U	A	A
Ethanol Amine	B	U	C
Ether	C	U	U
Ethyl Acetate	B/C	U	U
Ethyl Alcohol, Ethanol	A	U	A
Ethyl Benzene	U	B	U
Ethyl Bromide	U	A	B
Ethyl Cellulose	B	U	B
Ethyl Hexanole	A	A	A
Ethyl Oxalate	A	A	U
Ethyl Pentachlorobenzene	U	A	U
Ethyl Pyridine	A	C	U
Ethyl Sulfate (Diethyl Sulfate)	A	U	U
Ethylacrylate	-	U	U
Ethylchloride	B	B	U
Ethylchloroacetate	B	A	B
Ethylene	U	A	A
Ethylene Bromide	C	A	U
Ethylene Chloride	B	B	-
Ethylene Chlorohydrin	B	U	U

Chemical	EPDM	FPM/FKM	HNBR
Ethylene Diamine	A	U	U
Ethylene Dibromide	U	A	U
Ethylene Dichloride	U	A	U
Ethylene Glycol	A	A	A
Ethylene Glycol Ethylether (Cellosolve)	B	U	U
Ethylene Oxide	B	U	U
Ethylene Silicate	A	A	A
Ethylene Trichloride	C	B	U
Fats (animal/vegetable)	U	A	A
Fatty Acids	U	A	B
Ferric Chloride Solution	A	A	A
Ferric Nitrates	A	A	A
Ferric Sulfate (Ferric Vitrinol)	A	A	A
Ferric Sulfate Solution	A	A	A
Fir Oil	U	A	B
Fish Oil	U	A	A
Fluorine	U	U	U
Fluorobenzene	U	B	U
Fluorosilicic Acid	A	A	B
Formaldehyde (Formalin-Solution)	A	U	C
Formaldehyde (Methanal)	A	B	B
Formamide	A	B	B
Formic Acid	B	U	U
Freon 11	U	B	A
Freon 112	U	B	B
Freon 113	U	B	A
Freon 114	A	B	A
Freon 114 B2	U	B	B
Freon 115	A	B	A
Freon 12	B	B	B
Freon 13	A	B	A
Freon 13 B1	A	B	A
Freon 134 a	A	-	A
Freon 14	A	B	A
Freon 142 b	A	U	A
Freon 152 a	A	U	A
Freon 21	U	U	U
Freon 218	A	A	A
Freon 22	A	U	U
Freon 31	A	U	U
Freon 32	A	U	A
Freon 502	A	B	B
Freon BF	U	A	B
Freon C316	A	-	A
Freon C318	A	B	A
Freon MF	U	B	B
Freon PCA	U	B	A
Freon T-P35	A	A	A
Freon TA	A	U	A
Freon TC	B	A	A
Freon TF	U	A	A
Freon TMC	B	A	B
Freon TWD602	A	A	B
Fruit Juices	A	B	B
Fumaric Acid	-	A	A

Chemical	EPDM	FPM/FKM	HNBR
Furan	U	U	U
Furfural (Furfurylaldehyde)	-	-	C
Furfurylalcohol	-	-	-
Gallic Acid	B	A	A
Gas Oil	U	A	A
Gasoline/Alcohol Mix	U	B	B
Gasoline, 100 Octane	U	A	A
Gasoline, 130 Octane	U	A	A
Gasoline, aromatic	U	A	A
Gasoline, Ethyl and Regular	U	A	A
Gasoline, Refined	U	A	A
Gasoline, Sour	U	A	A
Gasoline, with Mercaptan	U	A	A
Gelatin	A	A	A
Generator Gas	U	A	A
Glauber's Salt	A	B	B
Glucose solution	A	A	A
Glucose, aqueous	A	A	A
Glycerin (Glycerol)	A	A	A
Glycerol	A	A	A
Glycerol Chlorohydrin	B	B	U
Glycerol Triacetate (Triacetin)	A	U	B
Glycerol Trinitrate (Nitroglycerin)	A	A	U
Glycine	A	A	B
Glycolic Acid	A	B	A
HEF-3	U	A	B
Helium Gas	A	A	A
Heptane	U	A	A
Hexachloro Acetone	A	U	U
Hexachloro Butadiene	U	A	U
Hexachloro Cyclohexane (Lindane)	U	A	-
1-Hexadecanol	A	-	A
Hexafluorosilicic Acid	B	A/B	B
Hexaldehyd	A	U	U
Hexalin (Cyclohexanol)	U	A	A
Hexamine	A	U	U
Hexanal (Capronaldehyde)	B	U	-
Hexane	U	A	A
Hexanetriol	A	A	A
Hexene	U	A	B
Hexyl Alcohol	B	A	A
Hydrazine	A	C	B
Hydrazine Hydrate	A	C	B
Hydrobromic Acid	A	A	U
Hydrochlorique Acid (Muriatic Acid) 37%	B	A	U
Hydrocyanic Acid	A	A	B
Hydrofluoric Acid (cold)	B	B	U
Hydrofluoric Acid (hot)	U	U	U
Hydrogen Chloride Gas	A	A	U
Hydrogen Fluoride	A/B	-	U
Hydrogen Peroxide, concentrated	U	A-C	U
Hydrogen Sulfide	C	U	U
Hydrogen, Gas	A	A	A
Hydrogene Bromide, unhydrous	U	A	U
Hydrogensulfite Leach	A	A	U

Chemical	EPDM	FPM/FKM	HNBR
Hydroquinone	B	U	U
Hydroxy Acetic Acid	A	U	U
Hydroxylamine	A	A	A
Hydroxylamine Sulfate	A	A	A
Hypochlorous Acid	B	A	U
Ink	A	B	A
Iodine	B	A	B
Iodine tincture	B	A	B
Iodoform	A	A	-
Iso-Butane	U	A	A
Iso-Butyl Alcohol	A	B	B
Iso-Butyl Methyl Ketone	A	U	U
Iso-Butylene	U	A	A
Iso-Butyraldehyde	A	U	U
Iso-Cyanate	A	-	-
Iso-Dodecane	U	A	A
Iso-Octane	U	A	A
Iso-Pentane	U	A	A
Iso-Propyl-Acetate	B	U	U
Iso-Propyl-Alcohol	A	A	B
Iso-Propyl-Benzene	U	A	U
Iso-Propyl-Chloride	U	A	U
Iso-Propyl-Ether	A	U	U
Jet Fuel JP3	U	A	A
Jet Fuel JP4	U	A	A
Jet Fuel JP5	U	A	A
Jet Fuel JP6	U	A	A
JP3 (Fuel)	U	A	A
JP4 (Fuel)	U	A	A
JP5 (Fuel)	U	A	A
JP6 (Fuel)	U	A	A
JPX (Fuel)	U	U	A
Kerosene	U	A	A
Ketchup	A	A	A
Lactams	U	U	U
Lactic Acid	B	A	B
Lanolin	U	A	A
Latex	A	A	A
Laughing Gas (N2O)	B	A	A
Lavender Oil	U	A	B
Lead Acetate Salt Solution	A	U	C
Lead Arsenate	A	-	A
Lead Nitrate	A	A	A
Lead Nitrate Solution	A	-	A
Lead Sulfate	A	A	B
Lemon Juice	A	A	A
Ligroin	U	A	A
Lindol	A	U	U
Linoleic Acid	U	A	B
Linseed Oil	C	A	A
Liqueurs	A	A	A
Lithium Bromide Brine	A	A	A
Lithium Chloride	A	A	A
Lithium Hydroxide	A	-	U
Machinery Oil (mineral)	U	A	A

Chemical	EPDM	FPM/FKM	HNBR
Maganese Chloride (Solution)	A	A	A
Magnesium Acetate Solution	A	U	U
Magnesium Chloride Solution	A	A	A
Magnesium Hydroxide (Solution)	A	B	B
Magnesium Silicate (Talcum)	A	A	A
Magnesium Sulfate (Epson Salts)	A	A	A
Maleic Acid	A	A	B
Maleic Anhydride	U	B	U
Malic Acid	B	A	A
Margarine	U	A	A
Mayonaise	U	U	A
Menthol	B	A	B
Mercaptans	A	U	U
Mercuric Chloride Solution	A	A	A
Mercury	A	A	A
Mercury Nitrate	A	-	A
Mesityl Oxide	A	U	U
Methacrylic Acid	B	U	U
Methanal	A	B	B
Methane	U	A	A
Methanol	A	C	B
Methoxy Benzene	U	U	U
Methoxy Butanol	B	A	A
Methyl Acetate	A	U	U
Methyl Acetoacetate	A	U	U
Methyl Acrylate	B	U	U
Methyl Alcohol	A	C	B
Methyl Amine	A	U	U
Methyl Aniline	B	B	U
Methyl Bromide	U	A	U
Methyl Butyl Ketone	A	U	U
Methyl Carbonate	U	U	U
Methyl Cellosolve	B	U	U
Methyl Cellulose	B	B	B
Methyl Chloride	B	B	U
Methyl Cyclopentane	U	B	U
Methyl Ethyl Ketone	B	U	U
Methyl Formate	B	U	U
Methyl Glycol	B	U	U
Methyl Glycol Acetate (Ethleneglycol)	B	U	U
Methyl Iso-Butyl Ketone	B	U	U
Methyl Iso-Propyl Ketone	A	U	U
Methyl Methacrylate	U	U	U
Methyl Methacrylic Acid Ester	U	U	U
Methyl Oleate	B	A	U
Methyl Phenyl Ether (Anisole)	U	U	U
Methyl Pyrrolidone	A	U	U
Methyl Salicylate	B	-	U
Methylene Chloride	U	B	U
2-Methylpentane	U	A	A
3-Methylpentane	U	A	A
Milk	A	A	A
Milk of Lime	A	B	U
Mineral Oil	U	A	A/B
Mineral Spirits	U	A	A

Chemical	EPDM	FPM/FKM	HNBR
Molasses	A	A	A
Monobromobenzene	U	B	U
Monochloroacetic Acid	A	U	U
Monochloroacetic Acid Ethyl Ester	B	U	U
Monochlorobenzene	U	B	U
Monoethanol Amine	B	U	U
Mononitrochlorobenzene	U	A	U
Morpholine	B	-	U
Muriatic Acid (HCl) (Hydrochloric Acid)	B	A	U
Muriatic Acid (HCl), diluted	A	A	B
Naphtha	U	A	U
Naphthalene	U	A	U
Naphthenic Acid	U	A	B
Naphtolen ZD	U	A	B
Natural Gas	U	A	A
Neats Foot Oil	B	A	A
Neon Gas	A	A	A
Nickel Acetate	A	U	B
Nickel Chloride	A	A	A
Nickel Nitrate	A	A	A
Nickel Sulfate	A	A	A
Nitrating Acids	A	U	U
Nitric Acid, concentrated	U	B	U
Nitric Acid, fuming	U	B	U
Nitro Benzene	U	U	U
Nitro Glycerin	A	A	U
Nitro Glycol	A	A	U
Nitro Methane	B	U	U
Nitro Propane	B	U	U
Nitro Toluene	U	U	U
Nitrogen Gas	A	A	A
Nitrogen Tetroxide	U	U	U
Nonanol	A	A	U
Nut Oil	U	A	A
Octadecane	U	A	A
Octal	B	B	U
Octane	U	A	B
Octanol (Octylalcohol)	A	A	B
Octylalcohol	B	A	B
Octylcresol	U	B	C
Oil of Turpentine	U	A	B
Olefin, crude	U	A	A
Oleic Acid	U	A	A
Oleic Alcohol	A	A	A
Oleum (Sulfuric Acid, 0 to 50%)	A	A	U
Olive Oil	U	A	A
Ortho Dichloro Benzene	U	A	U
Oxalic Acid	A	A	B
Ozone	A/B	A	B/C
Palm Kernel Oil	U	A	A
Palm Oil	U	A	A
Palmitic Acid	C	A	B
Para Dichloro Benzene	U	A	U
Paraffin	U	A	A
Paraffin Oil	U	A	A

Chemical	EPDM	FPM/FKM	HNBR
Peanut Oil	U	A	A
Pectin	A	A	A
Penta Chloro Diphenyl	U	C	U
Penta Chloro Phenol	B	-	U
Pentane	U	A	A
Pentanol	A	B	B
Perchloric Acid	B	A	U
Perchloro Ethylene	U	B	U
Petroleum	U	A	A
Petroleum Ether	U	A	A
Phenol	U	B	U
Phenyl Benzene	U	B	U
Phenyl Ether	U	U	U
Phenyl Hydrazine	U	B	U
Phosphine	A	B	U
Phosphoric Acid	B	A	U
Phosphoric Acid 45%	A	A	B
Phosphorous Trichloride	A	A	U
Photographic Developing Bath	B	A	A
Phthalic Acid	A	B	B
Phthalic Anhydride	A	-	-
Picoline, alpha	A	U	-
Picric Acid, Aqueous Solution	B	A	B
Pine Oil	U	A	B
Pineapple Juice	A	A	A
Pinene	U	A	B
Piperidine	U	U	U
Polyvinyl Acetates	A	U	-
Potassium Acetate	A	B	B
Potassium Aluminium Sulfat	A	-	-
Potassium Bicarbonate	A	A	A
Potassium Bisulfate	A	A	A
Potassium Borate	A	A	A
Potassium Bromate	A	A	A
Potassium Bromide	A	A	A
Potassium Carbonate	A	A	A
Potassium Chlorate	A	A	U
Potassium Chloride	A	A	A
Potassium Chromate	A	A	B
Potassium Cyanide	A	A	A
Potassium Dichromate	A	A	A
Potassium Hydroxide (Solution 50%)	A	C	B
Potassium Hydroxide, Potassium Lye	A	U	B
Potassium Hypochlorite (Javelle water)	B	A	B
Potassium Iodide	A	A	A
Potassium Nitrate	A	A	B
Potassium Perchlorate	A	A	U
Potassium Perfluoroacetate	A	U	B
Potassium Permanganate	A	A	U
Potassium Persulfate	A	A	U
Potassium Phosphate	A	A	A
Potassium Sulfate	A	A	A
Potassium Sulfite	A	A	A
Propane	U	A	A
Propanol	A	A	B

Chemical	EPDM	FPM/FKM	HNBR
2-Propanone (Acetone)	A	U	U
2-Propene-1-ol	A	A	B
Propinyl Alcohol	A	A	A
Propion Aldehyde	A	U	U
Propionic Acid	B	A	A
Propyl Acetate	B	U	U
Propyl Acetone	A	U	U
Propyl Amine	U	U	U
Propyl Nitrate	A	U	U
Propylene	U	A	U
Propylene Dichloride	U	-	U
Propylene Glycol	A	A	A
Propylene Oxide	B	U	U
Pyridine	B	B	U
Pyrrrole	U	U	U
Rapeseed Oil	U	A	B
Roast Gas (dry)	A	A	A
Rosin (Colophony)	A	A	A
Salicylic Acid	A	A	B
Sea Water	A	B	A
Sewage	A	A	A
Silicone grease	A	A	A
Silicic Acid	A	A	A
Silicon Dioxide	A	A	A
Silicone Oil	A	A	A
Silver Cyanide Solution	U	A	U
Silver Nitrate	A	A	B
Silver Salts	A	A	A
Skydrol 500	A	U	U
Skydrol 7000	A	B	U
Soap Solution	A	A	A
Soda (Sodium Carbonate)	A	A	A
Sodium Acetate	A	U	B
Sodium Benzoate	A	A	A
Sodium Bicarbonate Solution	A	A	A
Sodium Bisulfate Solution	A	A	A
Sodium Bisulfite Solution	A	A	A
Sodium Borate (Borax)	A	A	B
Sodium Carbonate (Soda Ash)	A	A	A
Sodium Carbonate Solution	A	A	A
Sodium Chlorate	A	A	B
Sodium Chloride (Common Salt)	A	A	A
Sodium Chloride Solution	A	A	A
Sodium Chlorite	A	A	U
Sodium Cyanide Solution	A	-	B
Sodium Dichromate	A	A	B
Sodium Fluoride	A	A	A
Sodium Hydroxide	A	C	B
Sodium Hydroxide, Caustic Soda	A	B	B
Sodium Hypochlorite Solution	A	A	B
Sodium Nitrate	A	A	B
Sodium Nitrite	A	A	U
Sodium Peroxide Solution	A	A	B
Sodium Phosphate	A	A	A
Sodium Silicate Solution	A	A	A

Chemical	EPDM	FPM/FKM	HNBR
Sodium Sulfate Solution (Glauber's Salt)	A	B	B
Sodium Sulfhydrate Solution	A	A	A
Sodium Sulfide	A	A	B
Sodium Sulfite Solution	A	A	A
Sodium Tetraborate Solution	A	A	B
Sodium Thiosulfate (Antichlor)	A	A	B
Soy Bean Oil	U	A	A
Sperm Oil	B	A	A
Spermacetin	U	A	A
Spirits	A	A	A
Stannic Chloride Solution	A	A	A
Starch	A	A	A
Stearic Acid	B	A	B
Stoddard Solvent	U	A	A
Styrene	U	A	U
Succinic Acid	A	A	A
Sucrose Sap	A	A	A
Sugar Solutions	A	A	A
Sulfur	A	A	U
Sulfur Chloride	U	A	U
Sulfur Dioxide (SO2)	A	B	U
Sulfur Dioxide Liquid (anhydrous)	A	U	U
Sulfur Dioxide, gaseous	A	U	U
Sulfur Hexafluoride (SF6)	A	B	B
Sulfuric Acid (0 to 50%)	A/B	A/B	U
Sulfuric Acid, diluted	A	A	B
Sulfurous Acid	B	A	-
Talcum	A	A	A
Tallow	B	A	A
Tannins	B	A	B
Tar	U	B	U
Tartaric Acid	B	A	A
Tetrachloroethane	U	B	U
Tetrachloromethane	U	A	U
Tetrachloroethylene	U	A	U
Tetrahydrofuran	U	U	U
Thionyl Chloride	B	A	U
Thiophene	U	U	U
Titanium Tetrachloride	B	B	B
Toluene (Toluol)	U	B	U
Transformer Oil	U	A	B
Tri-Iso-Propyl Benzene	U	A	A
Triacetin (Glycerine Triacetate)	A	U	B
Triaryl Phosphate	A	A	U
Tributoxy Ethyl Phosphate	B	B	U
Tributyl Mercaptane	U	A	U
Tributyl Phosphate	B	U	U
Trichloro Benzene	U	A	-
Trichloro Ethane	B/C	A	U
Trichloro Ethyl Phosphate	-	U	U
Trichloro Ethylene	B/C	B	U
Trichloroacetic Acid	B	U	B
Tricresyl Phosphate	B	B	U
Triethanolamine	A	-	-
Triethyl Borane	-	A	-

Chemical	EPDM	FPM/FKM	HNBR
Triethyl Glycol	A	A	A
Triethylaluminium	U	B	-
Trifluoro Ethane	U	A	U
Trinitrotoluene (TNT)	U	B	U
Trioctyl Phosphate	A	B	U
Trisodium Phosphate Solution	A	A	A
Turpentine	U	A	A
Urea	A	A	A
Vaseline	U	A	A
Vaseline Oil	U	A	A
Vegetable Juices	A	A	A
Vegetable Oils	U	A	A
Vinegar	A	B	B
Vinyl Acetate	-	-	-
Vinyl Chloride, liquid	-	-	-
Vinylidene Chloride	U	B	U
Waste Gas (cont. Carbon Dioxide)	A	A	A
Waste Gas (cont. Carbon Monoxide)	A	A	A
Waste Gas (cont. Hydrogen Chloride)	A	A	B
Waste Gas (cont. Hydrogen Fluoride)	A	A	A
Waste Gas (cont. Nitrous Fumes)	A	A	-
Waste Gas (cont. Sulfur Dioxide)	A	A	B
Waste Gas (cont. Sulfuric Acid)	A	A	U
Water steam < +150 °C / +302 °F	A	U	U
Water steam > +150 °C / +302 °F	B	U	U
Water to +80 °C / +176 °F	A	B	A
Water to +135 °C / +275 °F	A	C	C
Water vapour < +140 °C / +284 °F	A	U	C
Water vapour > +140 °C / +284 °F	B	U	U
Wax Alcohols	U	A	A
Wine + Whiskey	A	A	A
Wood Spirit	A	C	B
Xenon	A	A	A
Xylene (Xylol)	U	B	U
Xylidines (aromatic Amines)	B	U	U
Yeast	A	A	A
Zeolites	A	A	A
Zinc Acetate	A	B	B
Zinc Chloride Solutions	A	A	A
Zinc Sulfate	A	A	A

All details are guidelines without guarantee. The overview based on information of rubber processing industry and raw material manufacturers. For specific applications the user has the responsibility for suitability tests.



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