

ASTM DESIGNATION (D1418)	NR, IR	SBR, BR	IIR	EPM, EPDM	NBR	CR	AU, EU	PMQ, MQ, VMQ	FKM
COMMON NAME	Natural	SBR	Butyl	EPDM	Nitrile	Neoprene	Urethane	Silicone	Viton®
Aniline	U	U	B	B	U	C	U		C
Aniline Dyes	B	B	B	B	U	B	U		B
Aniline Hydrochloride	B	C	B	B	B	U	U	U	B
Animal Fats	U	U	B	B	A	B	A	B	A
Ansul Ether	U	U	C	C	C	U	B	U	U
Aqua Regia	U	U	U	C		U			B
Arochlor(s)	U	U	C	C	C	U		B	A
Arsenic Acid	B	A	A	A	A	A	C	A	A
Arsenic Trichloride					A	A			
Askarel	U	U	U	U	B	U	U	U	A
Asphalt	U	U	U	U	B	C	B	U	A
Barium Chloride	A	A	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A	A	A
Barium Sulfate	A	A	A	A	A	A	A	A	A
Barium Sulfide	A	B	A	A	A	A	A	A	A
Beer	A	A	A	A	A	A		A	A
Beet Sugar Liquors	A	A	A	A	A	A		A	A
Benzene	U	U	U	U	U	U	U	U	A
Benzenesulfonic Acid						A			A
Benzaldehyde		U	A	A	U	U	U	U	U
Benzyl Alcohol			B	B	U	A			A
Benzyl Benzoate			B	B					A
Benzyl Chloride					U	U			A
Benzoic Acid								B	A
Blast Furnace Gas	U	U			U	U		A	A
Bleach Solutions	U	U	A	A		C		B	A
Borax	B	B	A	A	B	A	A	B	A
Bordeaux Mixture	B	B	A	A		A		B	A
Boric Acid	A	A	A	A	A	A	A	A	A
Brine			A	A	A	A			
Bromine - Anhydrous	U					U		C	A
Bromine Trifluoride		U	U	U	U	U	U	U	U
Bromine Water	U					B			A
Bromobenzene		U	U	U	U	U	U	U	A
Bunker Oil	U				A		B	B	A

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COMMON NAME	Natural	SBR	Butyl	EPDM	Nitrile	Neoprene	Urethane	Silicone	Viton®
Butadiene	U	U	C	C	U	B	U		B
Butane	U	U	U	U	A	A	A		A
Butter	U	U	B	A	A	B	A	A	A
Butyl Acetate			B	B		U		U	U
Butyl Acetate Ricinoleate			A	A		B			A
Butyl Acrylate		U	U	U					U
Butyl Alcohol	A	A	B	B	A	A	U	B	A
Butyl Amine	U	U	U	U	C	U	U	B	U
Butyl Benzoate			A	A		U			A
Butyl Carbitol			A	A	A	B			A
Butyl Cellosolve			A	A	C	B			U
Butyl Oleate	U	U	B	B		U			A
Butyl Stearate	U	U	B	B	B				A
Butylene	U	U	U	U	B	C			A
Butyraldehyde	C	C	B	B	C	C		C	U
Calcium Acetate	A		A	A	B	B			U
Calcium Bisulfite	U	U	U	U	A	A	A	A	A
Calcium Chloride	A	A	A	A	A	A	A	A	A
Calcium Hydroxide	A	A	A	A	A	A	A	A	A
Calcium Hypochlorite	U	U	A	A	C	C		B	A
Calcium Nitrate	A	A	A	A	A	A	A	B	A
Calcium Sulfide	B	B	A	A	B	A	A	B	A
Cane Sugar Liquors	A	A	A	A	A	A	U	A	A
Carbamate	U	U	B	B	C	B	U		A
Carbitol	B	B	B	B	B	B	U	B	B
Carbolic Acid	U	U	B	B	U	C		U	A
Carbon Bisulfide			U	U	C	U			A
Carbon Dioxide	B	B	B	B	A	B	A	A	A
Carbonic Acid	A	B	A	A	A	A	A	A	A
Carbon Monoxide	B	B	A	A	A	A	A	A	A
Carbon Tetrachloride	U	U	U	U	C	U	C	U	A
Castor Oil	A	A	B	B	A	A	A	A	A
Cellosolve	U	U	B	B					C
Cellosolve Acetate	U	U	B	B	U		U		U
Cellulube			A	A	U	U			A

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COMMON NAME	Natural	SBR	Butyl	EPDM	Nitrile	Neoprene	Urethane	Silicone	Viton®
Chlorine (Dry)	U	U				C			A
Chlorine (Wet)	U	U	C	C		U	U		A
Chlorine Dioxide			C	C	U	U			A
Chlorine Trifluoride	U	U	U	U	U	U	U	U	U
Chloroacetone	B		B	A	U	B			U
Chloroacetic Acid			B	B					
Chlorobenzene	U	U	U	U	U	U	C	U	A
Chlorobromomethane	U	U	B	B		U		U	B
Chlorobutadiene	U	U	U	U	U	U			A
Chlorododecane	U	U	U	U	U	U			A
Chloroform	U	U	U	U	U	U		U	A
O-Chloronapthalene	U	U	U	U	U	U		U	A
1-Chloro 1-Nitro Ethane	U	U	U	U	U	U	U	U	C
Chlorosulfonic Acid	U	U	U	U	U	U	U		C
Chlorotoluene	U	U	U	U	U	U	U		A
Chrome Plating Solutions	U	U	U	U	U	U	U	B	A
Chromic Acid	U	U	C	C	U	U	U	C	A
Citric Acid	A	A	A	A	A	A	A	A	A
Cobalt Chloride	A	A	A	A	A	A	U	A	
Coconut Oil	U	U	A	A	A	B	A	A	
Cod Liver Oil	U	U	A	A	A	B	A	B	A
Coke Oven Gas	U	U						B	A
Copper Acetate			A	A	B	B			
Copper Chloride	A	A	A	A	A	A	A	A	A
Copper Cyanide	A	A	A	A	A	A	A	A	A
Copper Sulfate	B	B	A	A	A	A	A	A	A
Corn Oil	U	U	B	C	A	B	A	A	A
Cottonseed Oil	U	U	C	A	A	B	A	A	A
Creosote	U	U	U	U	B	C	B	U	A
Cresol	U	U	U	U	C	C	U		A
Cresylic Acid	U	U	U	U	C	C	U		A
Cumene						U			A
Cyclohexane	U	U	U	U	A	U	B	U	A
Cyclohexanol	B	U	U	U	B	A			A
Cyclohexanone			B	B	U	U			U

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COMMON NAME	Natural	SBR	Butyl	EPDM	Nitrile	Neoprene	Urethane	Silicone	Viton®
p-Cymene						U			A
Decalin	U	U				U			A
Decane	U	U			B	U	B	B	A
Denatured Alcohol	A	A	A	A	A	A	C	A	A
Detergent Solutions	B	B	A	A	A	A	U	A	A
Developing Fluids	A	B	B	B	A	A		A	A
Diacetone			A	A			B		U
Diacetone Alcohol	U	U	A	A	U	A	B	A	
Dibenzyl Ether	U	U	B	B	U	B	B		
Dibenzyl Sebecate			B	B		U	B	C	B
Dibutyl Amine	U	U	U	U	U	U		C	U
Dibutyl Ether	U	U	C	C	C	C	B	U	C
Dibutyl Phthalate	C	U	B	A	U	U	C	B	B
Dibutyl Sebecate	U	U	B	B	U	U	U	B	B
O-Dichlorobenzene	U	U	U	U	U	U	U	U	A
Dichloro-Isopropyl Ether	U	U	C	C	U	U	B	U	C
Dicyclohexylamine	U	U			C				
Diesel Oil	U	U	U	U	A	B	B	U	A
Diethylamine	B	B	B	B	C	C	C	B	U
Diethyl Benzene	U	U	U	U	U	U	U	U	A
Diethyl Ether	U	U	U	U	U	C	A	U	U
Diethylene Glycol	A	A	A	A	A	A	U	B	A
Diethyl Sebacate			B	B	U	U		B	B
Diisobutylene					B	C		U	A
Diisopropyl Benzene	U	U	U	U	U	U			A
Diisopropyl Ketone			A	A	U	U			U
Dimethyl Aniline	U	U	U	B		U			U
Dimethyl Formamide					B	C		B	U
Dimethyl Phthalate	U	U	B	B	U	U			B
Dinitrotoluene	U	U	U	U	U	U			C
Diocetyl Phthalate			B	B		U		C	B
Diocetyl Sebecate	U	U	B	B	U	U	B	C	B
Dioxane			B	B					
Dioxolane	U	U	C	B	U				
Dipentene					B				A

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COMMON NAME	Natural	SBR	Butyl	EPDM	Nitrile	Neoprene	Urethane	Silicone	Viton®
Freon TC	U	B	A	B	A	A	A	U	A
Freon MF	U	B	U		A	C	C		
Freon BF	U	U	U		B	B			
Fuel Oil	U	U	U	U	A	B	B	U	A
Fumaric Acid	A	A	U		A	B		B	A
Furan, Furfuran	U	U	C	C	U	U			
Fufural	C	C	B	B	U	B			U
Gallic Acid	A	B	B	B	B	B	U		A
Gasoline	U	U	U	U	A	B	A	U	A
Gelatin	A	A	A	A	A	A	A	A	A
Glauber's Salt		U	B	B					A
Glucose	A	A	A	A	A	A	A	A	A
Glue	A	A	A	A	A	A	A	A	A
Glycerin	A	A	A	A	A	A	A	A	A
Glycols	A	A	A	A	A	A	B	A	A
Green Sulfate Liquor	B	B	A	A	B	B	A	A	A
Halowax Oil	U	U	U	U	U	U		U	A
n-Hexaldehyde	U	U	B	A	U	A	B	B	
Hexane	U	U	U	U	A	B	B	U	A
n-Hexene-1	U	U	U	U	B	B	A	U	A
Hexyl Alcohol	A	A	C	C	A	B	U	B	A
Hydrazine			A	A	B	B	U	C	
Hydraulic Oil (Petroleum)	U	U	U	U	A	B	A	C	A
Hydrobromic Acid	A	C	A	A	U	A	U	U	A
Hydrochloric Acid (Hot) 37%	U	U	C	C	U	U	U	U	A
Hydrochloric Acid (Cold) 37%	B	B	A	A	B	B	U	B	A
Hydrocyanic Acid	B	B	A	A	B	B			A
Hydrofluoric Acid (Conc.) Hot	U	U	U	U	U	U	U	U	B
Hydrofluoric Acid (Conc.) Cold	U	U	B	B	U	B	U	U	A
Hydrofluoric Acid - Anhydrous	U	U	B	B				U	
Hydrofluosilicic Acid	A	B	A	A	B	B		U	A
Hydrogen Gas	B	B	A	A	A	A	A	C	A
Hydrogen Peroxide (90%)	U	U	C	C	U			A	B
Hydrogen Sulfide (Wet) (Cold)	U	U	A	A	U	A		C	U
Hydrogen Sulfide (Wet) (Cold)	U	U	A	A	U	B		C	U

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COMMON NAME	Natural	SBR	Butyl	EPDM	Nitrile	Neoprene	Urethane	Silicone	Viton®
Nickel Sulfate	B	B	A	A	A	A	A	A	A
Niter Cake	A	A	A	A	A	A		A	A
Nitric Acid - Conc.	U	U	C	C	U	C	U	U	A
Nitric Acid - Dilute	U	U	B	B	U	A	C	B	A
Nitric Acid - Red Fuming	U	U	U	U	U	U	U	U	C
Nitrobenzene	U	U	U	U	U	U	U	U	B
Nitrobenzine			C	C		U			A
Nitroethane	B	B	B	B	U	C		U	U
Nitromethane	B	B	B	B	U	C		U	U
Nitrogen	A	A	A	A	A	A	A	A	A
Nitrogen Tetroxide	U	U	C	C	U	U		C	U
Octadecane	U	U	U	U	A	B	A	U	A
n-Octane	U	U	U	U				U	A
Octachlorotoluene	U	U	U	U	U	U	U	U	A
Octyl Alcohol	B	B	A	A	B	A	U	B	A
Oleic Acid	C	C	B	B	C	C	B		B
Oleum Spirits					B	C	C		A
Olive Oil	U	U	B	B	A	B	A	U	A
o-Dichlorobenzene					U	U			A
Oxalic Acid	B	B	A	A	B	B		B	A
Oxygen - Cold	B	B	A	A	B	B	A	A	A
Oxygen - 200-400°F	U	U	U	U	U	U	U	B	B
Ozone	U	U	B	A	U	B	A	A	A
Paint Thinner, Duco	U	U	U	U					B
Palmitic Acid	B	B	B	B	A	B	A		A
Peanut Oil	U	U	C	C	A	B	B	A	A
Perchloric Acid			B	B		A		U	A
Perchloroethylene	U	U	U	U	C	U	U	B	A
Petroleum - Below 250	U	U	U	U	A	B	B	B	A
Petroleum - Above 250	U	U	U	U	C	U	U	U	B
Phenol			B	B		C	U	C	A
Phenylbenzene	U	U	U	U	U	U			A
Phenyl Ethyl Ether	U	U	U	U	U	U			
Phenyl Hydrazine	A	B	C	C	U	C			A
Phorone			B	B					

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COMMON NAME	Natural	SBR	Butyl	EPDM	Nitrile	Neoprene	Urethane	Silicone	Viton®
Phosphoric Acid - 20%	B	C	A	A	B	B	A		A
Phosphoric Acid - 45%	U	U	B	B	U	B	A	U	A
Phosphorous Trichloride	U	U	A	A	U	U			A
Pickling Solution			C	C					B
Picric Acid	B	B	B	B	B	A	B	U	A
Pinene	U	U	U	U	B	B	B	U	A
Pine Oil	U	U	U	U	B	U			A
Piperidine	U	U	U	U	U	U			U
Plating Solution - Chrome	U	U	A	A				U	A
Plating Solution - Others			A	A	A			U	A
Polyvinyl Acetate Emulsion			A	A		B			
Potassium Acetate	A	A	A	A	B	B			U
Potassium Chloride	A	A	A	A	A	A	A	A	A
Potassium Cupro Cyanide	A	A	A	A	A	A	A	A	A
Potassium Cyanide	A	A	A	A	A	A	A	A	A
Potassium Dichromate	B	B	A	A	A	A	A	A	A
Potassium Hydroxide	B	B	A	A	B	A	B	C	B
Potassium Nitrate	A	A	A	A	A	A	A	A	A
Potassium Sulfate	B	B	A	A	A	A	A	A	A
Producer Gas	U	U	U	U	A	B	A	B	A
Propane	U	U	U	U	A	A	B	U	A
Propyl Acetate	U	U	B	B	U	U			U
n-Propyl Acetate	U	U	A	A	U				U
Propyl Alcohol	A	A	A	A	A	A	U	A	A
Propyl Nitrate			B	B				C	U
Propylene	U	U	U	U	U	U			A
Propylene Oxide			B	B		U		U	
Pyranol	U	U	U	U	A	U	B	B	A
Pydrauls	U	U	B	B	U	U	U	B	A
Pyridine	U	U	B	B	U	U			U
Pyroligneous Acid			B	B		B			
Pyrole	C	C	C	C	U	U		B	
Radiation	B	B	U	B	B	B	A	C	U
Rapeseed Oil	U	U	A	A	B	B	B	U	A
Red Oil	U	U	U	U	A	B	A	U	A

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COMMON NAME	Natural	SBR	Butyl	EPDM	Nitrile	Neoprene	Urethane	Silicone	Viton®
Trichloroacetic Acid	C	B	B	B	B	B			C
Trichloroethylene	U	U	U	U	C	U	U	B	A
Tricresyl Phosphate	U	U	A	A	U	C	C	C	B
Triethanol Amine	B	B	B	B	C	A	U		U
Triethyl Aluminum									B
Triethyl Borane									A
Trinitrotoluene	U	U	U	U	U	B			B
Trioctyl Phosphate	U	U	A	A	U	U		C	B
Triaryl Phosphate	U	U	A	A	U	C	B	C	A
Tung Oil	U	U	C	U	A	B	B		A
Turbine Oil	U	U	U	U	B	B			A
Turpentine	U	U	U	U	A	U	U	U	A
Unsymmetrical Dimethyl Hydrazine (UDMH)			A	A	B	B		U	U
Varnish	U	U	U	U	B	C			A
Vegetable Oils	U	U	A	A	A	B		A	A
Versilube	A	A	A	A	A	A		C	A
Vinegar	B	B	A	A	B	A		A	A
Vinyl Chloride				B		U			A
Wagner 21B Fluid		A	B	A	C	A		C	C
Water	A	A	A	A	A	A	A	A	A
Whiskey, Wines	A	A	A	A	A	A	A	A	A
White Pine Oil	U	U	U	U	B	U			A
White Oil	U	U	U	U	A	B		U	A
Wood Oil	U	U	U	U	A	B		U	A
Xylene	U	U	U	U	U	U	C	U	A
Xylidenes	U	U	U	U	C	U		U	U
Zeolites	A	A	A	A	A	A			A
Zinc Acetate	A	C	A	A	B	B		U	U
Zinc Chloride	A	A	A	A	A	A			A
Zinc Sulfate	B	B	A	A	A	A		A	A



Disclaimer

The information contained in this document is to be used as a guide only. RubberMill cannot guarantee the accuracy, or be held responsible for the information's end use. It is recommended that each elastomer be tested for its specific application. RubberMill can assist you regarding information on additional elastomers not listed on this chart. Viton is a The Chemours Company Registered Trademark.