



Technical Reference Bulletin Elastomer Compatibility Chart

Polymer	Natural Rubber	Styrene Butadiene	Butyl	Ethylene Propylene	Neoprene	Nitrile	Silicone	Flurocarbon	Fluro Silicone	Urethane
ASTM Abbreviation	NR	SBR	IIR	EPDM	CR	NBR	VMQ/Si	FKM, FEPM	FVMQ	AU or EU
ASTM D-2000 Classification	AA	AA	AA	DA	BC	BG	GE/FE	HK	FK	BG
Polymer Trade Names	SMR® Pale Crepe® Smoked Sheet®	Ameripol Synpol® SBR® Plioflex® Stereon®		Nordel® Royalene® Vistalon® Buna EP® Keltan®	Neoprene® Baypren® Butachlor®	Nipol®, Krynac® Paracril®	Silastic® SILPLUS® Elastosil Wacker®	Viton® Dyneon® Aflas® Fluorel®	FSE® Silastic® Sylon®	Adiprene® Millathane® Vibrathane® Vulkolan®
Chemical										
1-Compatible										
2-Minor Incompatibility										
3-Severe Incompatibility										
4-Not Recommended										
0-Insufficient Data To Determine Compatibility										
Acetone	2	2	1	1	2	4	2	3	3	4
Acetylene	2	2	1	1	2	2	2	1	0	4
Aluminum Acetate	1	1	1	1	2	2	4	4	4	4
Aluminum Bromide	1	1	1	1	1	1	1	1	1	3
Aluminum Chloride	1	1	1	1	1	1	2	1	1	2
Aluminum Floride	2	1	1	1	1	1	2	1	1	3
Aluminum Nitrate	1	1	1	1	1	1	2	1	0	3
Aluminum Phosphate	1	1	1	1	1	1	1	0	1	0
Aluminum Sulfate	1	2	1	1	1	1	1	1	1	4
Ammonia Anhydrous	4	4	1	1	1	2	3	4	4	4
Ammonia Gas (Cold)	1	1	1	1	1	1	1	4	1	0
Ammonia Gas (Hot)	4	4	2	2	2	4	1	4	4	0
Ammonium Nitrate	3	1	1	1	2	1	1	0	0	4
Ammonium Nitrite	1	1	1	1	1	1	2	0	0	0
Ammonium Phosphate	2	1	1	1	1	1	1	0	0	0
(NH4)3PO4-Mono-Dibasic-Tribasic	1	1	1	1	1	1	1	0	0	0
Animal Fats	4	4	2	2	4	4	2	1	1	2
Animal Oils (Lard)	4	4	2	2	2	1	2	1	1	2
Automatic Transmission Fluid	4	4	4	4	2	1	4	1	0	2
Automatic Brake Fluid	0	1	2	1	2	3	3	4	4	0
Benzene	4	4	4	4	4	4	4	4	1	1
Borax	2	2	1	1	1	2	2	1	2	1
Boric Acid	1	1	1	1	1	1	1	1	1	1
Bromine	4	4	4	4	4	4	4	1	2	4
Butane	4	4	4	4	1	1	4	1	1	1
Butter	1	1	2	1	2	1	2	1	1	1
Butyl Acetate	4	4	2	2	4	4	4	4	4	4

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ASTM Abbreviation	NR	SBR	IIR	EPDM	CR	NBR	VMQ/Si	FKM, FEPM	FVMQ	AU or EU
Calcium Carbonate	1	1	1	1	1	1	1	1	1	3
Calcium Chloride	1	1	1	1	1	1	1	1	1	1
Calcium Nitrate	1	1	1	1	1	1	2	1	1	1
Calcium Sulfide	2	2	1	1	1	2	2	1	1	1
Cane Sugar Liquors	1	1	1	1	1	1	1	1	1	4
Carbon Dioxide, Dry	2	2	2	2	2	1	2	2	2	1
Carbon Dioxide, Wet	2	2	2	2	2	1	2	2	2	0
Carbon Tetrachloride	4	4	4	4	4	3	4	1	1	4
Castor Oil	1	1	2	2	1	1	1	1	1	1
China Wood Oil (Tung Oil)	4	4	3	4	2	1	4	1	2	3
Chlorinated Salt Brine	2	4	4	4	4	4	4	1	1	4
Chlorine, Dry	4	4	4	1	3	4	4	1	1	4
Chlorine, Wet	4	4	3	3	4	4	0	1	2	4
Chloroform	4	4	4	4	4	4	4	1	2	4
Chlorox	4	4	2	2	2	2	0	1	1	4
Citric Acid	1	1	1	1	1	1	1	1	1	1
Cocoonut Oil	4	4	2	3	3	1	1	1	1	3
Cod Liver Oil	4	4	1	1	2	1	2	1	1	1
Coffee	1	1	1	1	1	1	1	1	1	4
Copper Sulfate	2	2	2	1	1	1	1	1	1	1
Corn Oil	4	4	3	3	3	1	1	1	1	1
Cottonseed Oil	4	4	3	3	3	1	1	1	1	1
Crude Oil	4	4	4	4	4	2	4	1	2	0
Denatured Alcohol	1	1	1	1	1	1	1	1	1	4
Detergent Solutions	2	2	1	1	2	1	1	1	1	4
Diesel Oil	4	4	4	4	2	1	4	1	1	3
Drinking Water	1	1	1	1	2	1	1	1	1	4
Dry Cleaning Fluids	4	4	4	4	4	3	4	1	2	4
Epoxy Resins	0	0	1	1	1	0	0	4	0	0
Ethanol	1	1	1	1	1	3	2	3	1	4
Ethyl Acetate-Organic Ester	4	4	2	2	4	4	2	4	4	4
Ethyl Alcohol	1	1	1	1	1	3	2	1	1	4
Fatty Acids	3	4	4	4	2	2	4	1	0	0
Fish Oil	0	0	0	0	0	1	1	1	1	0
Formaldehyde	2	3	1	1	3	3	2	4	4	4

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ASTM D-2000 Classification	AA	AA	AA	DA	BC	BG	GE/FE	HK	FK	BG
Polymer Trade Names	SMR® Pale Crepe® Smoked Sheet®	Ameripol Synpol® SBR® Plioflex® Stereon®		Nordel® Royalene® Vistalon® Buna EP® Keltan®	Neoprene® Baypren® Butachlor®	Nipol®, Krynac® Paracril®	Silastic® SILPLUS® Elastosil Wacker®	Viton® Dyneon® Aflas® Fluorel®	FSE® Silastic® Sylon®	Adiprene® Millathane® Vibrathane® Vulkolan®
1-Compatible										
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4-Not Recommended										
0-Insufficient Data To Determine Compatibility										
Chemical										
Fuel Oil	4	4	4	4	2	1	4	1	1	4
Gasoline	4	4	4	4	2	1	4	1	1	2
Geletin	1	1	1	1	1	1	1	1	1	4
Glucose	1	1	1	1	1	1	1	1	1	4
Glue	1	1	1	1	1	1	1	1	1	1
Glycerine-Glycerol	1	1	1	1	1	1	1	1	1	4
Helium	1	1	1	1	1	1	1	1	1	1
Hexane	4	4	4	4	2	1	4	1	1	2
Hydrazine	0	2	1	1	2	2	3	0	0	4
Hydrochloric Acid Concentrated	4	4	1	3	4	4	4	1	3	0
Hydrogen Gas (Cold)	2	2	1	1	1	1	3	1	3	1
Hydrogen Gas (Hot)	2	2	1	1	1	1	3	1	3	1
Hydrogen Peroxide	2	2	1	1	1	2	1	1	1	0
Hydrogen Peroxide (90%)	4	4	3	3	4	4	2	2	2	0
Iodine	0	2	2	2	4	2	0	1	1	0
Isobutyl Alcohol	1	2	1	1	1	2	1	1	1	4
Isophorone (Ketone)	4	4	1	1	4	4	4	4	1	4
Kerosene	4	4	4	4	3	1	4	1	1	2
Lactic Acid (Cold)	1	1	1	1	1	1	0	1	1	0
Lactic Acid (Hot)	4	4	4	4	4	4	0	1	2	0
Lacquers	4	4	4	4	4	4	4	4	4	4
Lactic Acids	1	1	1	1	1	1	1	1	1	1
Lard, Animal Fats	4	4	4	4	3	1	2	1	1	1
Liquid Petroleum Gas (LPG)	4	4	4	4	2	1	3	1	3	1
Lubricating Oils, Petroleum Base	4	4	4	4	2	1	4	1	1	2
Lye Solutions	2	2	1	1	2	2	2	2	2	4
Methanol	1	1	1	1	1	1	1	1	1	4

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Methyl Alcohol	1	1	1	1	1	1	1	4	1	4
Milk	1	1	1	1	1	1	1	1	1	4
Mineral Oils	4	4	4	4	2	1	2	1	1	1
Mobil Oil SAE 20	4	4	4	4	2	1	4	1	1	1
Naptha	4	4	4	4	4	3	4	1	2	3
Natural Gas	3	3	4	4	1	1	1	1	3	2
Neon	1	1	1	1	1	1	1	1	1	1
Nitric Acid (Concentrated)	4	4	3	4	4	4	4	1	4	4
Nitric Acid (Concentrated)	4	4	2	2	1	4	2	1	2	3
Nitrogen	1	1	1	1	1	1	1	1	1	1
Olive Oil	4	4	2	2	2	1	4	1	1	1
Oxalic Acid	2	2	1	1	2	2	2	1	1	0
Ozone	4	4	2	1	3	4	1	1	2	1
Paint Thinner	4	4	4	4	4	4	4	2	2	4
Peanut Oil	4	4	3	3	2	1	1	1	1	2
Petroleum Oil Crude	4	4	4	4	2	1	4	1	1	1
Petroleum Oil Crude - Below 250°F	4	4	4	4	2	1	2	1	2	2
Petroleum Oil Crude - Above 250°F	4	4	4	4	4	4	4	2	4	4
Phosphoric Acid 20%	2	3	2	1	2	4	2	1	2	1
Phosphoric Acid 45%	4	4	2	4	2	4	4	1	2	1
Pickling Solution	4	4	3	3	4	4	4	2	4	4
Pine Oil	4	4	4	4	4	2	4	1	1	0
Potassium Chloride	1	1	1	1	1	1	1	1	1	1
Potassium Cyanide	1	1	1	1	1	1	1	1	1	1
Potassium Nitrate	1	1	1	1	1	1	1	1	1	1
Potassium Salts	1	1	1	1	1	1	1	1	1	1
Potassium Sulphate	2	2	1	1	1	1	1	1	1	1
Potassium Sulphite	2	2	1	1	1	1	1	1	1	1
Propane	4	4	4	4	2	1	4	1	2	3
Red Oil (Mil-H-5606)	4	4	4	4	2	1	4	1	1	2
RJ-1 (Mil-F-25558)	4	4	4	4	2	1	4	1	1	2
RP-1 (Mil-R-25576)	4	4	4	4	2	1	4	1	1	2
Salicylic Acid	1	2	1	1	0	2	0	1	1	0
Salt Water	1	1	1	1	1	1	1	1	1	4
Sewage	2	2	2	2	2	1	2	1	1	4

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1-Compatible										
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Chemical										
Silicone Greases	1	1	1	1	1	1	3	1	1	1
Silicone Oils	1	1	1	1	1	1	3	1	1	1
Silver Nitrate	1	1	1	1	1	2	1	1	1	1
Skydrol 500	4	4	2	1	4	4	3	4	3	4
Skydrol 7000	4	4	1	1	4	4	3	2	3	4
Soap Solutions	2	2	1	1	1	1	1	1	1	1
Soda Ash	1	1	1	1	1	1	1	1	1	0
Sodium Bicarbonate (Baking Soda)	1	1	1	1	1	1	1		1	1
Sodium Borate	1	1	1	1	1	1	1	1	1	0
Sodium Carbonate (Soda Ash)	1	1	1	1	1	1	1	1	1	1
Sodium Chloride	1	1	1	1	1	1	1	1	1	1
Sodium Cyanide	1	1	1	1	1	1	1	1	1	1
Sodium Hydroxide	1	1	1	1	2	2	2	2	2	2
Sodium Nitrate	2	2	1	1	2	2	4	0	0	0
Sodium Peroxide	2	2	1	1	2	1	4	1	1	4
Sodium Phosphate (Mono)	1	1	1	1	1	1	4	1	1	1
Sodium Phosphate (Dibasic)	1	1	1	1	2	1	4	1	0	1
Sodium Phosphate (Tribasic)	1	1	1	1	2	1	1	1	0	1
Soybean Oil	4	4	3	3	3	1	1	1	1	2
Sucrose Solutions	1	1	1	1	2	1	1	1	1	4
Sulfer	4	4	1	1	1	4	1			
Sulfuric Acid Dilute	3	3	3	2	2	4	4	1	3	3
Sulfuric Acid Concentrated	4	4	4	2	4	4	4	1	4	4
Super Shell Gas	4	4	4	4	2	1	4	1	2	2
Tannic Acid	1	2	1	1	2	1	2	1	0	1
Toluene	4	4	4	4	4		4	1	2	4
Transforer Oil	4	4	4	4	2	1	2	1	1	1

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Transmission Fluid Type A	4	4	4	4	4	1	2	1	1	1
Trichloroethane	4	4	4	4	4	4	4	1	2	4
Trichloroethylene	4	4	4	4	4	3	4	1	2	4
Tung Oil (China Wood Oil)	4	4	3	4	2	1	4	1	2	3
Turpentine	4	4	4	4	4	1	4	1	2	4
Varnish	4	4	4	4	4	2	4	1	2	3
Vegetable Oil	4	4	3	3	3	1	1	1	1	0
Vinegar	2	2	1	1	2	2	1	1	3	4
Vinyl Chloride	2	2	1	1	2	2	1	1	3	4
Water	1	1	1	1	1	1	1	1	1	1
Whiskey and Wines	1	1	1	1	1	1	1	1	1	4
White Pine Oil	4	4	4	4	4	2	4	1	1	0
Wood Alcohol	1	1	1	1	1	1	1	4	1	4
Xylene	4	4	4	4	4	4	4	1	1	4
Xylol	4	4	4	4	4	4	4	1	1	4
Xenon	1	1	1	1	1	1	1	1	1	1
Zinc Chloride	1	1	1	1	1	1	0	1	1	0
Zinc Sulfate	2	2	1	1	1	1	4	1	1	0

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