



Selection Guide For Chemical Resistance of Elastomer

Selection of the correct elastomer material for the chemical composition of the process fluid is essential for optimum service life.

In many cases, process fluids will contain a number of chemicals, and the elastomer selection should be based on all chemicals present. Our chemical recommendations based upon are experience, recommendations of polymer suppliers and laboratory tests. This information is offered only as a guide. Actual suitability can be determined only by the user under actual operating conditions.

In the following charts, we have classified several elastomers that are used in the manufacture of our expansion joints and pinch valves. The chart below explains the technical and common names for the abbreviations used.

Abbreviation	Technical Nomenclature	Common Name	Service Temp Deg. F	
			Min.	Max.
CR	Chloroprene Rubber	Neoprene	-65	230
NBR	Nitrile Butadiene Rubber	Buna-N®/Nitrile	-65	240
*NR	Natural Rubber	Rubber	-65	180
*PGR	Natural Rubber	Pure Gum Rubber	-65	180
CIIR	Chloro-Isobutylene Isoprene Rubber	Chlorobutyl	-65	250
CSM	Chloro-Sulfonyl Polyethylene	Hypalon™	-65	250
EPDM	Ethylene Propylene Diene Monomer	Ethylene Propylene Rubber (Norde™, Royalene™)	-65	300
FPM/FKM	Fluorocarbon Elastomer	Viton™, Fluorel™	-40	400
AFMU	Tetrafluoro-ethylene Resin	Teflon™	-120	450
SI	Dimethyl Ploysilcone	Silicone	-160	500
AU/EU	Polyurethane	Urethane	32	200

*Pure gum rubber is a high grade formulation of natural rubber with the same chemical resistance, but improved abrasion resistance.

The temperature limitations shown do not allow for variations in chemical activity with temperature or pressure. Caution should be exercised when selecting an elastomer for aggressive chemical service near its maximum limits-consult factory.

Codes to chemical resistance chart.

A-Excellent Little or no effect on elastomer. Long service life may be expected - suitable for continuous service.

B-Good. Moderate effect on elastomer. Usually suitable for continuous or intermit-tent service.

C-Conditional. Depending on operating conditions, elastomer will be affected to a varying extent - not recommended for continuous service, fair service may be expected if chemical exposure is limited or infrequent

X-Not recommended

- -No data. No information available, but not expected to perform better than compounds that have been rated.

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CHEMICAL	ELASTOMER										CHEMICAL	ELASTOMER									
	CR	NBR	*NR*/PGR (Buna-N®/Nitrile)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™,Royalene™)	FPM/FKM (Viton™,Fluorel™)	AFMU (Teflon™)	SI (Silicone)	AU/EU		CR	NBR	*NR*/PGR (Buna-N®/Nitrile)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™,Royalene™)	FPM/FKM (Viton™,Fluorel™)	AFMU (Teflon™)	SI (Silicone)	AU/EU
Acetaldehyde	C	X	C	A	C	A	X	A	A	C	Alpha Hydroxtoluene	X	X	X	A	-	-	A	-	-	
Acetamide	B	B	C	A	B	A	B	A	B	X	Alum (See Also Specific Types)	A	A	A	A	A	A	A	A	X	
Acetate of Lime	B	B	C	A	A	A	X	A	-	-	Alums - (NH3-Cr-K)	A	A	A	A	A	X	A	A	B	
Acetate Solvents	X	X	C	X	C	X	A	-	-	X	Aluminum Acetate	B	C	A	A	B	A	X	A	X	
Acetic Acid - Common	B	C	B	B	B	A	C	-	A	X	Aluminum Ammonium Sulfate	B	B	A	A	-	-	A	-	X	
Acetic Acid - Dilute	B	C	B	B	A	A	A	A	A	X	Aluminum Bromide	A	A	A	B	A	-	-	A	-	
Acetic Acid - Glacial	C	C	C	B	C	B	C	A	B	X	Aluminum Chloride	A	A	A	A	A	A	A	B	B	
Acetic Acid - 10%	B	C	B	A	B	A	A	A	A	X	Aluminum Fluoride	A	A	A	A	B	A	A	B	B	
Acetic Acid - 20%	B	C	B	B	B	A	C	A	A	X	Aluminum Formate	-	X	X	B	X	-	X	A	-	
Acetic Acid - 30%	B	C	B	B	B	A	C	A	A	X	Aluminum Hydroxide	A	B	A	A	B	A	C	A	-	
Acetic Acid - 50%	C	C	C	B	B	A	C	A	B	X	Aluminum Nitrate	A	A	A	A	A	A	A	B	C	
Acetic Acid - 99.5%	C	C	C	B	C	B	C	A	B	X	Aluminum Phosphate	A	A	A	A	A	A	A	A	-	
Acetic Aldehyde	C	X	C	A	C	A	X	A	A	C	Aluminum Potassium Sulfate	A	A	A	A	A	A	A	A	-	
Acetic Anhydride	B	B	C	B	A	B	X	A	C	X	Aluminum Sodium Sulfate	A	A	A	A	A	A	A	A	A	
Acetic Ester	X	X	X	B	X	B	X	A	B	X	Aluminum Sulphate	A	A	A	A	A	A	A	A	B	
Acetic Ether	X	X	X	B	X	B	X	A	B	X	Aminobenzene	C	X	X	C	C	B	A	A	B	
Acetic Oxide	B	C	C	B	A	B	X	A	C	B	Amino Dimethylbenzene	X	X	X	B	-	-	A	-	-	
Acetidin	X	X	X	B	X	B	X	A	B	X	Amino Ethanol	B	B	B	A	B	B	C	A	B	
Acetoacetic Acid	X	X	B	B	-	-	A	-	-	-	Amino Ethylethanolamine	-	B	B	A	B	-	-	A	-	
Acetoacetic Ester	X	X	B	B	X	B	-	A	-	-	Amino Hexane	-	C	C	B	C	-	X	A	-	
Acetone	B	X	B	A	B	A	X	A	A	B	Amino Pentane	X	C	C	B	C	X	X	A	-	
Acetone Cyanohydrin	B	X	C	A	C	X	X	A	A	X	Amino Xylene	X	X	X	B	X	C	C	A	X	
Acetonic	B	X	B	A	B	A	X	A	A	X	Ammonia Alum	B	B	A	B	-	-	A	-	-	
Acetonitrile	A	C	B	A	B	A	X	A	-	-	Ammonia - Anhydrous (Liquid)	A	B	A	A	B	A	C	A	C	
Acetophenone	X	X	C	A	X	A	X	A	-	X	Ammonia Gas (Cold)	A	A	A	A	A	A	A	A	B	
Acetyl Acetone	X	X	C	B	X	A	X	A	-	X	Ammonia Gas (Hot)	B	C	C	C	C	C	X	A	C	
Acetyl Acetonic	X	X	C	B	X	A	X	A	-	B	Ammonia In Water	A	B	A	A	B	A	C	A	C	
Acetyl Benzene	X	X	C	A	X	A	X	A	-	X	Ammoniak	A	A	A	A	A	A	A	A	B	
Acetyl Chloride	X	X	X	C	X	C	B	A	-	X	Ammoniated Citric Acid	B	B	A	A	-	-	A	-	-	
Acetylene	B	A	A	A	B	A	A	A	C	B	Ammoniated Latex	A	B	C	-	C	B	A	A	-	
Acetylene Dichloride	X	X	X	C	X	-	A	A	-	-	Ammonium Acetate	A	-	A	-	-	-	A	-	C	
Acetylene Tetrabromide	X	X	X	X	-	-	A	-	X	-	Ammonium Alum	B	B	A	A	-	-	A	-	-	
Acetylene Tetrachloride	X	X	X	X	X	X	A	A	C	X	Ammonium Bicarbonate	A	A	A	A	A	A	A	-	-	
Acetyl Oxide	X	C	C	A	B	-	X	A	-	-	Ammonium Bifluoride	X	B	X	X	-	-	A	-	-	
Acetyl Propane	X	X	X	B	X	B	X	A	-	B	Ammonium Carbonate	B	X	A	A	B	A	A	B	A	
Acrolein	-	B	B	A	B	-	A	A	-	X	Ammonium Chloride	A	A	A	A	A	A	A	B	C	
Acrylic Aldehyde	-	B	B	A	B	-	A	A	-	-	Ammonium Chromic Sulfate	A	A	A	A	-	-	A	-	-	
Acrylonitrile	B	X	B	C	C	X	X	A	X	X	Ammonium Dichromate	A	A	A	A	A	A	-	A	-	
Adipic Acid	X	B	A	X	-	-	A	-	A	-	Ammonium Diphosphate	A	A	A	A	A	A	A	A	-	
Adipic Ketone	-	X	X	X	X	-	X	A	-	-	Ammonium Fluoride	B	B	B	A	-	-	A	-	-	
Agar	B	B	A	A	-	-	A	-	-	-	Ammonium Fluoride Acid	X	B	X	X	-	-	A	-	-	
Agricultural Lime	A	A	A	A	B	A	A	A	A	A	Ammonium Hydrate 38%	A	A	A	A	-	-	A	-	-	
Air	A	A	A	A	A	A	A	A	A	B	Ammonium Hydroxide	B	B	B	A	A	A	A	A	X	
Air - Slaked Lime	A	A	A	A	-	-	A	-	-	-	Ammonium Hyposulphite	A	A	A	A	A	A	A	-	-	
Alcohol - Absolute	A	A	A	A	A	B	A	A	A	B	Ammonium Metaphosphate	A	A	A	A	A	A	A	-	-	
Alcohol - Aliphatic	A	A	A	-	A	A	A	-	B	-	Ammonium Muriate	A	A	A	A	A	A	A	B	A	
Alcohol - Aromatic	C	C	C	-	-	C	A	A	-	B	Ammonium Nitrate	A	A	A	A	A	A	A	B	X	
Alcohol - Denatured	A	A	A	A	A	B	A	A	A	B	Ammonium Nitrite	A	A	A	A	A	A	A	B	A	
Alcohol - Ethyl	A	A	A	A	A	A	B	A	A	B	Ammonium Persulfate	A	C	A	B	A	B	A	A	-	
Alcohol - Grain	A	A	A	A	A	A	B	A	A	B	Ammonium Phosphate - Dibasic	A	A	A	A	A	A	A	A	-	
Alcohol - Methyl	A	A	A	A	A	B	C	A	A	B	Ammonium Phosphate Monobasic	A	A	A	A	A	A	A	A	-	
Alcohol Ether	C	C	X	A	-	A	B	A	-	B	Ammonium Phosphate - Tribasic	A	A	A	A	A	A	A	A	-	
Alcohol of Vinegar	B	C	A	A	B	A	A	A	A	B	Ammonium Rhodanate	A	A	A	A	A	A	A	-	-	
Aldehyde	C	X	C	A	C	A	X	A	A	C	Ammonium Sulfate	A	A	A	A	A	A	A	A	A	
Alicyclic Hydrocarbons	X	B	X	X	X	X	A	A	X	B	Ammonium Sulfide	A	A	A	A	A	-	A	A	B	
Aliphatic Hydrocarbons	B	A	X	X	B	X	A	A	X	B	Ammonium Sulfite	-	A	A	A	A	-	A	A	-	
Aliphatic Naphtha	X	C	X	X	B	-	A	A	-	-	Ammonium Sulphate	A	A	A	A	A	A	A	A	B	
Alkazene	X	X	X	X	X	X	X	A	A	B	Ammonium Thiocyanate	A	A	A	A	A	A	A	-	B	
Alk-Tri	-	X	X	X	X	X	-	A	A	-	Ammonium Thiosulfate	A	A	A	A	A	A	A	-	-	
Allomaleic Acid	B	C	B	X	B	-	A	A	B	-	Amoil	-	X	X	A	X	-	C	A	-	
Allyl-Alcohol	A	A	A	A	A	B	A	-	-	-	Amyl Acetate	X	X	C	B	X	B	X	A	X	
Allyl Aldehyde	-	B	B	A	B	-	A	A	-	-	Amyl Acetic Ester	X	X	C	B	C	B	X	A	X	
Allyl Bromide	X	X	X	X	X	-	B	A	-	-	Amyl Acetone	-	X	X	B	X	-	X	A	-	
Allyl Chloride	X	X	X	C	X	X	B	A	-	-	Amyl Acid Phosphate	X	-	X	X	-	-	A	-	-	
Allyl Phenyl Methyl Ether	-	X	X	X	X	-	B	A	-	-	Amyl Alcohol	A	B	A	A	A	A	A	X	X	
Alpha Chloropropylene	X	X	X	X	-	-	A	-	-	-	Amyl Amine	X	C	C	B	C	X	X	A	-	
Alpha Chlorotoluene	X	X	X	X	-	-	A	-	-	-	Amyl Borate	B	A	X	X	A	X	A	A	-	
Alpha Hydroxy Propionic Acid	B	B	A	A	-	-	A	-	-	-	Amyl Bromide	X	X	X	X	X	A	A	-	-	

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

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	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU		SI	AU/EU	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI
Amyl Carbinol	B	A	B	B	A	C	B	A	B	X	Barium Sulfide	A	A	A	A	A	A	A	B	A
Amyl Chloride	X	X	X	C	X	X	A	A	-	X	Barium Sulphide	A	A	A	A	A	A	A	B	A
Amyl Chloronaphthalene	X	B	X	X	C	X	A	A	X	C	Basic Iron Sulfate	A	A	A	A	-	-	A	-	-
Amyl Ether	X	C	X	X	C	X	-	A	-	-	Beer	A	C	A	A	A	A	A	A	X
Amyl Hydrate	B	B	A	A	-	-	-	A	-	-	Beet Sugar Liquors	A	A	A	A	A	A	A	A	X
Amyl Iodide	B	A	X	X	B	X	A	A	-	X	Benzal Chloride	-	X	-	B	-	-	A	-	-
Amyl Iodide	X	X	X	X	X	X	-	A	-	-	Benzal Alcohol	C	X	C	A	B	C	A	A	-
Amyl Naphthalene	X	X	X	X	X	X	A	A	X	X	Benzaldehyde	X	X	X	B	X	B	X	A	C
Amyl Oleate	-	B	X	X	X	-	-	A	X	-	Benzene	X	C	X	X	X	X	A	A	X
Amyl Phenol	-	X	X	X	X	-	A	A	-	-	Benzene Carbinal	X	X	X	B	X	B	X	A	C
Amyl Phthalate	-	X	X	A	X	-	C	A	-	-	Benzene Carboxylic Acid	A	X	B	A	A	B	B	A	B
Amylene	A	B	X	X	X	X	A	A	-	X	Benzene Methylal	X	X	X	B	X	B	X	A	C
Aniline Oils	C	X	X	A	C	B	A	A	B	X	Benzene Sulfonic Acid	A	C	X	X	A	C	A	A	-
Aniline Chloride	X	C	B	C	X	B	B	A	X	X	Benzidam	C	X	X	A	C	B	A	A	B
Aniline Dyes	B	C	B	A	B	A	A	A	A	X	Benzin	B	A	X	X	X	X	A	A	A
Aniline Hydrochloride	X	C	A	C	X	B	B	A	X	X	Benzine	B	A	X	X	X	X	A	A	A
Aniline Salts	X	C	B	C	X	B	B	A	X	X	Benzine Solvent	B	A	X	X	X	X	A	A	A
Animal Fats	B	A	X	B	C	A	A	A	B	C	Benzoic Acid	A	X	B	A	B	B	A	B	X
Animal Gelatin	A	A	A	A	A	A	A	A	A	A	Benzoic Aldehyde	X	X	X	B	X	B	X	A	C
Animal Glue	A	A	B	B	A	B	A	A	A	A	Benzol	X	C	X	X	X	X	A	A	X
Animal Glycerin	-	A	X	B	-	B	A	A	B	-	Benzol Hydrate	X	X	X	B	X	B	X	A	C
Animal Grease	B	A	X	C	C	A	A	A	B	A	Benzoline	B	A	X	X	X	X	A	A	A
Animal Oil	-	A	X	B	X	-	A	A	-	A	Benzophenol	X	X	X	B	-	-	A	-	-
Anise Camphor	-	X	X	X	X	-	B	A	-	A	Benzotrichloride	-	X	-	-	-	-	A	-	-
Ansul Ether	X	C	X	C	X	C	X	A	X	B	Benzoyl Chloride	X	X	X	X	X	B	A	X	X
Ant Oil	C	X	X	A	B	A	X	A	C	X	Benzyl Acetate	-	X	X	A	B	-	X	A	-
Antichlor	A	A	A	A	A	A	A	A	A	A	Benzyl Alcohol	C	X	C	A	B	C	A	A	-
Antimonous Chloride	-	X	X	X	X	-	-	A	-	-	Benzyl Benzoate	X	X	X	A	-	B	A	A	-
Antimonous Chloride	-	B	-	A	-	A	A	A	-	-	Benzyl Chloride	X	X	X	C	X	X	A	A	X
Antimony Chlorides	-	B	-	A	-	A	A	A	-	-	Betula Oil	X	X	X	B	-	C	B	A	-
Antimony Pentaffluorides	-	X	X	X	X	-	-	A	-	-	Biborate of Soda	A	B	A	A	A	A	A	A	B
Antimony Trichloride	-	B	-	A	-	A	A	A	-	B	Bicarbonate of Soda	A	A	A	A	A	A	A	A	A
Apple Acid	C	B	A	X	B	X	A	A	B	-	Bichloride of Mercury	B	A	B	A	A	A	A	A	A
Aqua Ammonia	B	B	A	A	B	-	C	A	-	-	Bichromate of Soda	-	-	-	A	C	-	-	A	-
Aqua Regia	X	X	X	C	B	C	A	A	C	X	Biphenyl	X	X	X	X	X	X	A	A	C
Arachidonic Acid	X	B	X	A	-	-	-	A	-	-	Biphenyl Oxides	X	X	X	X	C	X	A	A	C
Arochlors	X	C	X	C	X	C	A	A	B	C	Biphenyl Phthalate	-	X	X	A	X	-	C	A	-
Aromatic Hydrocarbons	X	C	X	X	X	X	A	A	X	X	Bismuth Carbonate	A	A	A	A	A	A	A	A	-
Aromatic Spirits	-	C	X	X	X	-	A	A	-	-	Bismuth Subcarbonate	A	A	A	A	A	A	A	A	-
Aromatic Tar	-	C	X	X	X	-	A	A	-	-	Bismuthyl Carbonate	A	A	A	A	A	A	A	A	-
Aromatic Vinegar	B	C	A	A	B	A	A	A	A	B	Black Liquor	A	B	B	A	A	A	A	A	-
Aro-Tox Spray	C	C	-	-	-	-	-	A	-	-	Black Liquor -Waste	B	A	X	X	C	X	A	A	-
Arsenic Acid	A	B	A	A	A	A	A	A	A	C	Black Sulfate Liquor	A	B	A	A	C	A	A	A	X
Arsenic Butter	A	X	X	X	X	X	X	A	-	-	Blast Furnace Gas	A	C	C	C	B	B	A	A	X
Arsenic Chloride	A	C	X	X	X	X	X	A	-	-	Bleach Liquor	X	-	-	-	-	A	A	A	-
Arsenic Trichloride	A	C	X	X	X	X	X	A	-	-	Bleach Solutions	X	X	X	-	-	A	A	A	B
Arsenous Chloride	A	C	X	X	X	X	X	A	-	-	Blown Linseed Oil	A	A	C	A	A	A	A	A	A
Arsenous Trichloride	A	C	X	X	X	X	X	A	-	-	Blue Copperas	A	A	C	A	A	A	A	A	A
Asphalt	B	A	X	X	B	X	A	A	X	B	Blue Jack	A	A	A	A	A	A	A	A	A
ASTM - Ref Fuel A	A	A	X	X	X	X	A	A	-	B	Blue Salts	A	A	C	A	A	A	A	A	A
ASTM - Ref Fuel B	C	A	X	X	X	X	A	A	-	B	Blue Stone	A	A	C	A	A	A	A	A	C
ASTM - Ref Fuel C	C	-	-	X	C	X	A	A	-	X	Blue Vitriol	C	A	X	X	C	X	A	A	C
ASTM - Ref #1 Oil	B	A	X	X	X	X	A	A	-	A	Boghead Naphtha	B	A	X	A	B	B	A	A	X
ASTM - Ref #2 Oil	B	A	X	X	-	-	-	A	-	B	Boiled Linseed Oil	-	-	-	-	-	-	A	-	-
ASTM - Ref #3 Oil	B	A	X	X	C	X	A	A	-	-	Boletic Acid	-	X	B	-	-	-	A	-	-
Astral Oil	B	A	X	X	C	X	A	A	X	C	Bone Oil	-	A	-	B	X	-	A	A	-
Aviation Gasoline	C	A	X	X	X	X	A	A	-	B	Bone Tar	-	A	X	B	X	-	A	A	-
Baking Soda	A	A	A	A	A	A	A	A	A	A	Boric Acid	A	A	A	A	A	A	A	A	A
Bardol "B"	X	X	X	X	X	X	X	A	-	X	Borax Solutions	A	B	A	A	A	A	A	B	A
Barium Carbonate	A	A	A	A	A	A	A	A	-	B	Borax Dehydrate	B	A	A	A	-	-	A	-	-
Barium Chloride	A	A	A	A	A	A	A	A	A	A	Bordeaux Mixture	A	A	A	A	A	A	A	B	X
Barium Hydrate	A	A	A	A	A	A	A	A	A	A	Boric Acid	A	A	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A	A	A	X	Brake Fluid - Vegetable	B	B	X	A	-	-	A	-	X
Barium Monohydrate	A	A	A	A	-	-	-	A	-	-	Branol	C	C	C	C	A	B	A	A	X
Barium Monosulfide	A	A	A	A	A	A	A	B	A	-	Brandy	A	A	A	A	A	A	B	A	X
Barium Octahydrate	A	A	A	A	-	-	-	A	-	-	Brine	A	A	A	A	A	A	A	A	X
Barium Sulfate	A	A	A	A	A	A	A	B	A	-	Bromallyene	X	X	X	X	-	B	A	-	-
											Bromine - Gas	X	X	X	X	C	X	B	A	C

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	CR	NBR	*NR*/PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royaltene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)		AU/EU	CR	NBR	*NR*/PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royaltene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)	AU/EU
Bromine - Anhydrous Liquid	X	-	-	-	C	C	A	A	B	X	Calcine Liquors	-	A	-	A	-	-	A	-	X	
Bromine Trifluoride	X	X	X	X	X	X	X	A	X	X	Calcium Acetate	B	B	B	A	A	A	X	A	-	X
Bromine Water	B	-	-	-	A	-	A	A	-	X	Calcium Aluminate	-	A	A	A	A	-	A	A	-	-
Bromobenzene	X	X	X	X	X	X	B	A	X	X	Calcium Bichromate	-	-	-	A	C	-	-	A	-	-
Bromochloromethane	X	X	X	B	X	B	C	A	-	-	Calcium Bisulfate	A	A	A	A	A	A	A	A	B	A
Bromoethylene	X	X	X	X	X	C	B	A	-	-	Calcium Bisulfide	A	A	C	B	A	C	A	A	C	C
Bromomethane	X	C	C	B	X	A	A	A	-	X	Calcium Bisulfite	A	A	C	B	A	C	A	A	C	A
Bromopentane	X	X	X	X	X	X	B	A	-	-	Calcium Carbonate	A	A	A	A	A	A	A	A	-	X
Bromotoluene	-	X	X	X	X	-	B	A	-	-	Calcium Chlorate	A	A	A	A	A	A	A	A	-	B
Bunker "C"	B	A	X	X	X	A	A	A	B	B	Calcium Chloride	A	A	A	A	A	A	A	A	A	A
Bunker Oil	B	A	X	X	X	X	A	A	B	B	Calcium Chlorophosphate	A	-	-	-	-	A	A	-	-	
Burnt Lime	A	A	A	A	A	-	-	A	-	-	Calcium Hydrate	A	A	A	A	B	A	A	A	A	A
Burnt Potash	A	B	A	A	-	-	-	A	-	-	Calcium Hydroxide	A	A	A	A	B	A	A	A	A	X
Butadien	B	X	X	C	B	C	A	A	-	X	Calcium Hypochloride	X	C	C	B	A	A	A	A	B	X
Butanal (Butal)	C	X	X	B	C	B	X	A	C	C	Calcium Monoxide	A	A	A	A	A	A	-	A	-	B
Butane	B	A	X	X	A	C	A	A	-	X	Calcium Nitrate	A	A	A	A	A	A	A	A	B	X
Butanoic Acid	C	C	C	C	C	C	C	A	-	-	Calcium Oxide	A	A	A	A	A	A	-	A	-	B
Butanol	A	B	A	A	A	A	A	A	B	X	Calcium Silicate	-	A	A	A	A	-	A	A	-	A
Butanone	X	X	X	B	X	A	X	A	C	X	Calcium Silico-Aluminate	X	X	B	-	-	-	A	-	-	-
Butarol	B	B	A	A	-	-	-	A	-	-	Calcium Sulfate	A	A	A	A	A	A	A	A	-	B
1-Butene	A	-	X	X	-	X	A	A	-	-	Calcium Sulfhydrate	-	A	A	A	A	-	A	A	-	-
1-Butene, 2-Ethyl	B	-	X	X	-	X	A	A	-	X	Calcium Sulfide	B	A	A	A	A	A	A	A	B	A
Butoxyethanol	C	B	X	A	B	A	C	A	-	-	Calcium Sulfite	-	A	A	A	A	-	A	A	-	A
Butter	B	A	X	A	A	A	A	A	A	C	Cane Sugar Liquors	A	A	A	A	A	A	A	A	A	X
Butyl Acetate	X	X	X	B	X	B	X	A	X	X	Caprylic Acid	-	C	C	C	B	-	-	A	-	-
N-Butyl Acetate	X	X	C	C	X	X	X	A	-	X	Caprylic Aldehyde	C	X	X	B	-	-	-	A	-	X
Butyl Acetate Ricinoleate	X	X	X	X	-	-	-	A	-	-	Caproxyl Alcohol	X	X	X	X	-	-	-	A	-	-
Butyl Aceto Acetate	-	-	X	-	X	-	X	A	-	-	Caproyl Alcohol	B	A	B	B	A	A	B	A	B	X
Butyl Acetyl Ricinoleate	X	C	X	A	C	C	A	A	-	X	Caproyl Hydride	B	A	X	X	B	X	A	A	-	B
Butyl Acrylate	X	X	X	C	X	X	X	A	A	-	Capryl Acetate	-	X	X	A	A	-	X	A	-	-
Butyl Alcohol	A	A	A	A	A	A	A	A	B	X	Capryl Alcohol	B	A	B	B	A	C	B	A	B	X
N-Butyl Alcohol	A	B	A	A	A	A	A	A	B	X	Caprylic Acid	-	C	C	C	B	-	-	A	-	-
SEC Butyl Alcohol	A	A	A	A	A	A	A	A	B	X	Caprylic Alcohol	B	A	B	B	A	A	B	A	B	X
Butyl Aldehyde	C	X	X	B	C	B	X	A	C	C	Caprylic Aldehyde	-	X	X	-	X	-	X	A	-	-
Butyl Amine	X	B	C	B	C	X	X	A	B	X	Carbamate	B	C	X	B	B	B	A	A	-	X
Butyl Benzene	-	X	X	X	X	-	A	A	-	-	Carbamide	B	B	A	A	A	-	-	A	-	-
N-Butyl Benzoate	X	-	-	A	X	B	A	A	-	-	Carbazotic Acid	C	C	C	C	A	B	A	A	X	B
Butyl Benzyl Phthalate	-	X	X	A	X	-	C	A	-	-	Carbinol	A	A	A	A	A	B	C	A	A	X
Butyl Bromide	-	X	X	X	X	-	B	A	-	-	Carbitol	B	B	X	A	B	B	A	A	B	X
N-Butyl Butyrate	-	X	X	C	X	-	X	A	-	-	Carbitol Acetate	-	C	X	B	B	-	-	A	-	X
N-Butyl - N-Butyrate	X	-	-	-	-	-	A	A	-	-	Carbolic Acid	C	X	X	B	C	C	A	A	X	X
Butyl Carbitol	B	A	X	A	A	A	A	A	A	X	Carbon Bisulfide	X	C	X	X	X	X	A	A	C	X
Butyl Cellosolve	C	B	X	A	B	A	C	A	-	X	Carbon Dioxide (Wet or Dry)	A	A	A	A	A	A	A	A	A	B
Butyl Chloride	-	X	X	C	X	-	A	A	-	-	Carbon Disulfide	X	C	X	X	X	X	A	A	C	X
N-Butyl Ether	B	A	X	X	C	-	C	A	-	B	Carbon Disulfide	X	C	X	X	X	X	A	A	C	X
Butyl Ether Acetaldehyde	-	X	X	B	X	-	X	A	-	-	Carbon Monoxide	B	C	C	C	B	C	A	A	A	C
Butyl Ethyl Ether	-	B	X	X	B	-	-	A	-	-	Carbon Tetrachloride	X	C	X	X	X	X	A	A	X	X
Butyl Formate	X	X	X	-	-	-	-	A	-	-	Carbon Tetrafluoride	X	X	X	B	X	B	-	A	-	B
Butyl Hydrate	A	A	A	A	A	A	A	A	B	X	Carbonic Acid	A	A	A	A	A	A	A	A	A	-
Butyl Hydride	B	A	X	X	A	C	A	A	-	A	Carbonic Anhydride	A	A	A	A	A	A	A	A	A	A
Butyl Hydroxide	A	A	A	A	A	A	A	A	B	X	Carboxy Benzene	B	-	A	-	-	-	A	-	-	-
Butyl Iodide	X	X	X	-	-	-	-	A	-	-	Casein (Casymen)	A	A	A	-	A	A	A	A	-	-
Butyl Methyl Ketone	-	-	-	-	-	-	-	A	-	-	Castor Oil	A	A	B	A	A	B	A	A	A	A
Butyl Oleate	X	-	X	B	X	B	A	A	B	-	Caustic-Baryta	A	A	A	A	A	A	A	A	A	A
Butyl Oxide	B	A	X	X	C	-	C	A	-	-	Caustic. Lime	A	A	A	A	A	A	-	A	-	X
Butyl Phthalate	-	X	X	B	X	-	C	A	-	X	Caustic- Potash	B	C	B	A	A	B	C	A	A	X
Butyl Stearate	X	A	X	C	X	B	A	A	-	B	Caustic- Soda	B	C	A	A	B	A	B	A	C	-
Butyl Tertiary Alcohol	A	A	A	A	A	A	B	A	B	X	Cellosolve	C	C	X	A	B	A	B	A	-	X
Butylene	C	B	X	X	C	X	A	A	-	C	Cellosolve Acetate	X	C	C	A	X	A	A	A	C	X
Butyraldehyde	C	X	X	B	C	B	X	A	C	X	Cellosolve, Butyl	C	B	X	A	B	A	C	A	-	X
Butyric Acid	C	C	C	C	C	C	C	A	-	X	Cellulose Acetate	B	B	B	-	-	-	C	A	-	X
Butyric Alcohol	B	B	A	A	-	-	-	A	-	-	Chinese Wood Oil	B	A	X	B	B	C	B	A	C	C
Butyric Anhydride	-	C	C	C	B	-	-	A	-	-	Chlorinated Solvents (Wet or Dry)	X	X	X	X	X	X	A	A	X	X
Butyrene	-	X	X	B	X	-	X	A	-	-	Chlorine (Dry)	C	C	C	C	C	C	A	A	A	X
Butyronitrile	X	X	X	A	-	A	-	A	-	-	Chlorine (Wet)	X	X	X	C	X	X	A	A	B	X
Cadmium Acetate	-	X	X	A	A	-	X	A	-	-	Chlorine Aqueous	-	-	X	X	-	-	-	A	-	X
Cadmium Cyanide	A	-	-	-	-	-	A	A	-	-	Chlorine Dioxide	X	X	X	X	B	C	A	A	C	X
Calamine	B	B	B	A	A	-	A	A	-	-	Chlorine Gas (Dry)	C	C	C	C	X	X	B	A	-	X

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

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	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI	AU/EU		CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI	AU/EU	
Chlorine Gas (Wet)	X	C	X	C	X	X	C	A	-	X	Copperas Ferrous Sulfate	A	A	A	A	A	A	A	A	-	A	
Chlorine Peroxide	X	X	X	X	B	C	A	A	C	-	Corn Oil	B	A	X	A	B	A	A	A	A	A	A
Chlorine Trifluoride	X	X	X	X	X	X	C	A	X	X	Corn Syrup	B	B	B	A	A	A	A	A	A	A	A
Chlorine Water, Saturated	X	C	X	X	B	C	A	A	-	X	Creosoteed Oil	B	A	X	A	B	A	A	A	A	A	A
Chlorine Water - 3%	C	B	B	X	B	-	A	A	-	-	Creosote - Wood Tar	B	A	X	X	X	X	A	A	C	C	-
Chloroacetic Acid	X	X	X	C	B	B	A	A	C	X	Creosote - Coal Tar	B	A	X	X	B	X	A	A	C	X	-
Chloroacetone	C	X	X	C	B	X	B	A	-	X	Crude Oil	C	A	X	X	X	X	A	A	C	C	-
Chloroacetonitrile	C	C	C	C	-	-	-	A	-	-	Cryolite	A	B	A	A	-	B	A	A	-	-	-
Chloroallylene	X	X	X	C	X	X	B	A	-	-	Cryolite, 10%	A	B	-	A	-	A	A	A	-	-	-
Chloroazotic Acid	X	X	X	C	B	C	A	A	C	X	Crysoat F.H. Rinse	X	-	X	-	-	-	-	A	-	-	-
Chlorobenzal	-	X	-	B	-	-	-	A	-	-	Crysoat H.C	X	-	X	-	-	-	-	A	-	-	-
Chlorobenzene	X	X	X	X	X	X	A	A	X	X	Crysoat LT. & SW	X	-	X	-	-	-	-	A	-	-	-
Chlorobenzol	X	X	X	X	X	X	A	A	X	X	Crystal Ammonia	A	A	-	A	-	-	-	A	-	-	-
Chlorobromomethane	X	X	X	C	X	B	A	A	X	X	Cupric Acetate	B	B	-	A	B	A	-	A	-	X	-
Chlorobutadiene	X	X	X	C	X	X	A	A	C	X	Cupric Arsenate	A	A	A	A	A	A	A	A	-	-	-
Chlorobutane	-	X	X	C	X	-	A	A	-	-	Cupric Carbonate	-	A	C	A	A	-	A	A	-	-	-
Chlorododecane	X	X	X	X	C	X	A	A	-	X	Cupric Chloride	A	A	B	A	A	A	A	A	A	-	-
Chloroethane	X	X	C	B	X	C	A	A	-	C	Cupric Cyanide	B	A	A	A	B	A	A	A	A	A	A
Chloroethanoic Acid	X	X	X	C	B	A	A	A	C	X	-	B	C	A	B	-	C	A	-	-	-	
Chloroethanol	B	X	C	B	B	A	B	A	C	-	Cupric Hydroxide	A	A	B	A	A	-	A	A	-	-	-
Chloroethyl Alcohol	B	X	C	B	B	A	B	A	C	-	Cupric Nitrate	A	A	B	A	A	-	A	A	-	-	-
Chloroethylbenzene	X	X	X	X	X	X	A	A	-	B	Cupric Nitrite	-	A	C	A	A	-	A	A	-	-	-
Chloroform	X	X	X	X	X	X	A	A	C	X	Cupric Sulfate	A	A	C	A	A	A	A	A	A	A	X
O-Chloronaphthalene	X	X	X	X	X	X	A	A	X	X	Cupric Sulphate	A	A	C	A	A	A	A	A	A	A	X
1-Chloro-1-Nitroethane	X	X	X	X	X	C	A	X	X	X	Cupric Sulfide	-	A	C	A	A	-	A	A	-	-	-
Chlorinated Hydrocarbons	X	X	X	-	X	X	A	A	-	-	Cyanomethane	A	C	B	A	B	A	X	A	-	-	-
Chloropentane	X	X	X	C	X	X	A	A	-	-	Cyclohexane	X	B	X	X	X	X	A	A	X	B	-
Chlorophenic Acid	X	X	X	X	X	B	A	-	-	-	Cyclohexanol	A	B	C	X	C	C	A	A	-	-	-
o-Chlorophenol	X	X	X	X	X	X	B	A	-	X	Cyclohexanone	X	X	X	C	X	C	X	A	-	X	-
Chloroprene	X	X	X	X	C	X	A	A	C	-	Cyclohexatriene	X	X	X	X	X	X	A	A	X	X	-
Chloropropanone	X	X	X	X	-	X	A	-	-	-	Cyclopentane	A	B	X	X	X	X	A	A	-	-	-
Chloropropene	X	X	X	C	X	X	B	A	-	-	Cyclopentanol	-	B	X	X	X	-	B	A	-	-	-
Chloropropylene	X	X	X	X	-	-	A	-	-	-	Cyclopentanone	-	X	X	X	X	-	X	A	-	-	-
Chloropropylene Oxide	X	X	X	C	B	X	A	-	-	-	Decahydronaphthalene	X	X	X	C	X	X	A	A	-	X	-
Chlorosulfonic Acid	X	X	X	X	C	X	X	A	X	X	Decanal	-	X	X	C	X	X	X	A	-	-	-
Chlorothene	-	X	X	X	X	-	A	A	-	X	Decane	X	B	X	C	X	C	A	A	B	B	-
Chlorotoluene	X	X	X	C	X	X	A	A	X	X	Decanol	X	A	B	B	A	-	B	A	-	-	-
Chlorotrifluoroethylene	-	X	X	X	-	-	A	-	-	-	Decyl Alcohol	X	A	B	B	A	-	B	A	-	-	-
Chlorox	B	B	C	A	A	-	A	A	-	X	Decyl Aldehyde	-	X	X	C	X	-	X	A	-	-	-
Chrome Alum	A	A	A	A	-	-	A	-	-	B	Decyl Butyl Phthalate	-	X	X	A	X	-	C	A	-	-	-
Chrome Ammonium Alum	A	A	A	A	-	-	A	-	-	-	Dehydrated Alcohol	A	A	A	A	A	A	B	A	A	X	-
Chrome Plating Solutions	X	X	X	C	C	X	A	A	B	X	Deionized Water	A	B	A	A	-	-	-	A	-	-	-
Chromic Acid - To 25%	X	X	X	B	A	A	A	A	C	-	Denatured Alcohol	B	A	A	A	A	A	B	A	A	X	-
Chromic Acid - Over 25%	X	X	X	X	A	C	A	A	C	X	Detergent Solutions	B	A	B	A	A	A	A	A	A	B	-
Chromium Ammonium Sulfate	A	A	A	A	-	-	A	-	-	-	Dextrose	B	B	B	A	A	A	A	A	A	A	A
Chromium Potassium Sulfate	A	A	A	A	-	-	A	-	B	-	Diacetic Acid	X	X	B	B	-	-	-	A	-	-	-
Chrysolepic Acid	C	C	C	C	A	B	A	A	X	B	Diacetic Ester	X	X	B	B	-	-	-	A	-	-	-
Citric Acid	A	B	A	A	A	A	A	A	A	A	Diacetic Ether	X	X	B	B	-	-	-	A	-	-	-
Citric Acid - Ammoniated	B	B	A	A	-	-	-	A	-	-	Diacetone	-	X	C	A	X	A	X	A	-	X	-
Citrous Oils	X	C	X	B	X	B	-	A	A	-	Diacetone Alcohol	B	X	B	A	B	B	C	A	-	X	-
Coal Oil	B	A	X	X	C	X	A	A	X	C	Diacetylacetic Acid	X	X	B	B	-	-	-	A	-	-	-
Coal Tar - Bituminous	C	B	X	X	C	X	A	A	B	C	Diamine (Diamidogen)	C	B	-	A	B	A	C	A	-	C	X
Coal Tar - Creosote	B	A	X	X	B	X	A	A	C	X	Diaminoethane	A	B	B	A	A	A	X	A	A	X	-
Coal Tar Naphtha	X	X	X	X	X	X	A	A	X	X	Diammonium Orthophosphate	A	A	A	A	A	A	A	A	A	X	-
Coconut Oil	B	B	X	A	B	A	A	A	A	X	Diamylamine	-	B	B	A	C	-	-	A	-	X	-
Cod Liver Oil	B	B	X	A	B	A	A	A	B	A	Diamylene	X	C	X	X	X	X	A	A	-	-	-
Coke Oven Gas	C	C	C	C	A	X	A	A	A	X	Diamyl Naphthylene	-	X	X	A	X	-	C	A	-	-	-
Copper Acetate	B	B	-	A	B	A	-	A	-	X	Diamyl Phenol	-	X	X	X	X	-	A	A	-	-	-
Copper Arsenate, Basic	A	A	A	A	A	A	A	A	-	-	Dibenzyl Ether	X	X	X	B	X	C	C	A	-	B	-
Copper Chloride	A	A	B	A	B	A	A	A	A	B	Dibenzyl Sebacate	X	X	X	B	X	B	B	A	B	B	-
Copper Cyanide	B	A	A	A	B	A	A	A	A	A	Dibromobenzene	-	X	X	X	X	-	A	A	-	-	-
Copper Hydrate	-	B	C	A	B	-	C	A	-	-	1,2,- Dibromobenzene	X	X	X	X	X	C	B	A	-	-	-
Copper Hydroxide	-	B	C	A	B	-	C	A	-	-	Dibutyl Acetate	X	-	-	-	-	-	-	A	-	-	-
Copper Nitrate	A	A	B	A	A	A	A	A	-	B	Dibutylamine	X	C	B	A	C	X	B	A	-	C	X
Copper Nitrite	-	A	C	A	A	A	A	A	-	-	Dibutyl Ether	C	B	X	X	C	C	C	A	X	X	-
Copper Sulfate	A	A	C	A	A	A	A	A	A	C	Dibutyl Phthalate	X	X	X	B	X	A	B	A	B	X	-
Copper Sulfide	-	A	C	A	A	-	A	A	-	-	Dibutyl Sebacate	X	X	X	B	X	B	B	A	B	X	-
Copper Sulphate	A	A	C	A	A	A	A	A	A	C	Dicalcium Phosphate	-	A	A	A	A	-	A	A	-	-	-

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

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Dichloroether	-	X	X	X	X	-	-	A	-	-	Diocetyl Phthalate	X	X	X	A	X	B	A	A	C	X
Dichloroethylene	X	X	X	C	X	X	A	A	-	-	Diocetyl Sebacate	X	X	X	A	X	B	B	A	C	B
Dichloroethyl Ether	-	X	X	X	X	-	-	A	-	C	Dioxanes (Dioxans)	X	X	X	A	X	A	X	A	X	X
Dichlorofluoromethane	X	X	X	C	X	X	X	A	X	-	Dioxethylene Ether	X	X	X	X	-	-	A	-	-	-
Dichlorohexane	-	X	X	X	X	-	A	A	-	-	Dioxolanes (Dioxolans)	X	X	X	C	X	C	B	A	-	-
Dichloro - Isopropyl Ether	X	X	X	C	X	C	C	A	X	B	Dipentene	X	C	X	X	X	A	A	-	-	X
Dichloromethane	X	X	X	X	X	C	B	A	-	X	Diphenyl	X	X	X	X	X	A	A	C	C	X
Dichloropentane	-	X	X	X	X	-	A	A	-	X	Diphenyl Oxides	X	X	X	X	C	X	A	A	C	X
Dichloropropane	X	X	X	X	X	X	B	A	-	-	Diphenyl Phthalate	-	X	X	A	X	-	C	A	-	-
Dichlorotetrafluoroethane	X	X	X	X	-	-	-	A	-	A	Dipropylamine	-	B	B	A	C	-	-	A	-	-
Dicyclohexylamine	X	X	X	X	B	X	B	A	-	X	Dipropylene Glycol	-	A	A	A	A	-	A	A	-	-
Dielene	X	X	X	C	X	-	A	A	-	-	Dipropyl Ketone	-	X	X	B	X	-	X	A	-	-
Diesel Oil	B	A	X	X	C	X	A	A	X	C	Dipropyl Methane	A	A	X	X	B	X	A	A	-	-
Diethanolamine	-	B	B	-	C	-	-	A	-	X	Disodium Phosphate	-	A	A	A	A	-	-	A	-	-
Diethylamine	A	C	B	A	C	C	C	A	B	C	Distilled Vinegar	B	C	A	A	B	A	A	A	A	B
Diethylbenzene	X	X	X	X	X	X	A	A	X	X	Dodecanol	-	A	A	A	A	-	B	A	-	-
Diethylcarbinol	-	A	A	A	A	-	B	A	-	C	Dodecyl Alcohol	-	A	A	A	A	-	B	A	-	-
Diethyl Carbonate	X	X	X	X	-	-	-	A	-	X	Dodecyl Benzene	-	X	X	X	X	-	A	A	-	-
Diethyl Ether	C	B	X	C	C	X	X	A	X	A	Dodecyl Toluene	-	X	X	X	X	-	A	A	-	-
Diethyl Ketone	X	X	X	B	X	B	X	A	-	-	Dowtherm A	C	C	X	X	B	X	A	A	B	-
Diethyl Oxalate	X	X	C	C	X	X	-	A	-	-	Dowtherm E	X	X	X	X	B	X	A	A	A	X
Diethyl Oxide	C	B	X	C	C	X	X	A	X	A	Dowtherm Oil	X	-	X	X	X	X	A	A	B	X
Diethyl Phthalate	-	X	X	A	X	-	C	A	-	-	Dowtherm SR-1	-	A	A	A	A	-	A	A	-	B
Diethyl Sulfate	-	X	X	B	X	-	X	A	-	X	Dry Cleaning Solvent	C	A	X	X	X	X	A	A	X	-
Diethyl Triamine	-	B	B	A	C	-	-	A	-	-	Epichlorohydrin	X	X	X	C	C	B	X	A	-	A
Diethyl Dioxide	X	X	X	A	X	A	X	A	X	-	Epsom Salts	A	A	A	A	A	A	A	A	A	-
Diethylene Ether	X	X	X	X	-	-	-	A	-	-	Ethamine	X	X	B	A	C	A	X	A	-	-
Diethylene Glycol	A	A	A	A	A	A	A	A	B	X	Ethanal	C	X	C	A	C	A	X	A	A	C
Diethylene Glycol - Dialkyl Ether	X	A	X	A	-	-	-	A	-	-	Ethanalamine	B	B	C	A	B	A	B	A	B	X
Diethylene Glycol - Monoalkyl Ether	X	A	X	A	-	-	-	-	-	-	Ethane	B	A	X	X	B	X	A	A	X	C
Diethylene Glycol - Monobutyl Ether	B	A	X	A	A	A	A	A	-	-	Ethane Nitrile	A	C	B	A	B	A	X	A	-	-
Diethylene Glycol - Monoethyl Ether	B	B	X	A	B	B	A	A	B	X	Ethanedioic Acid	B	B	B	A	A	A	C	A	B	-
Diethylene Oxide	X	X	X	A	X	A	X	A	X	-	Ethanethiol	X	X	X	X	X	X	B	A	-	-
Diethylene Triamine	-	B	B	A	C	-	-	A	-	X	Ethanoic Acid	-	-	-	-	-	-	A	-	-	X
Dihydroxydiethyl Annie	-	B	B	A	C	-	-	A	-	-	Ethanol	B	A	A	A	A	A	B	A	A	X
Dihydroxydiethyl Ether	B	A	A	A	A	-	A	A	-	-	Ethanolamine	B	B	B	A	B	B	C	A	B	C
Dihydroxydiethyl Amine	-	B	B	A	C	-	-	A	-	-	Ethanoyl Chloride	X	X	X	C	X	C	B	A	-	-
Dihydroxypropane	-	A	A	A	A	A	A	A	-	-	Ether	X	B	X	C	B	X	X	A	C	X
Dihydroxysuccinic Acid	C	B	A	B	A	B	A	A	A	A	Ethine	B	A	A	A	B	A	A	A	C	-
Diisobutyl Ketone	X	X	X	C	X	B	X	A	-	X	Ethocel	B	B	B	A	B	B	A	A	C	B
Diisobutylene	C	B	X	X	C	-	A	A	X	X	Ethoxyethane	C	B	X	C	C	X	X	A	X	A
Diisodecyl Adipate	-	X	X	A	X	-	C	A	-	-	Ethoxythanol	C	C	X	A	B	A	B	A	-	X
Diisodecyl Phthalate	X	X	X	A	X	A	C	A	-	-	Ethyl Acetate	X	X	X	B	X	B	X	A	B	X
Diisooctyl Adipate	-	X	X	A	X	-	C	A	-	-	Ethyl Acetic Acid	C	C	C	C	B	C	C	A	-	-
Diisooctyl Phthalate	-	X	X	A	X	-	C	A	-	-	Ethyl Acetoacetate	X	X	C	B	X	B	X	A	B	X
Diisoprene	X	C	X	X	X	X	A	A	-	-	Ethyl Acrylate	X	X	X	C	X	B	X	A	B	-
Diisopropanolamine	-	B	B	A	C	-	-	A	-	-	Ethyl Alcohol	A	A	A	A	A	A	B	A	A	X
Diisopropylamine	-	B	B	A	C	-	-	A	-	-	Ethyl Aldehyde	C	X	C	A	C	A	X	A	A	C
Diisopropyl Benzene	X	X	X	X	X	X	A	A	-	X	Ethyl Aluminum Dichloride	-	X	X	X	X	-	B	A	-	-
Diisopropyl Ether	X	B	X	X	C	X	-	A	-	-	Ethyl Amine	X	X	B	A	C	X	A	X	-	X
Diisopropyl Ketone	X	X	X	B	X	A	X	A	-	X	Ethyl Benzene	X	X	X	X	X	X	A	A	X	X
Dimethylamine	-	B	B	A	X	C	-	A	-	-	Ethyl Benzoate	X	X	-	B	-	B	A	A	-	X
Dimethylaniline	X	X	X	B	X	B	C	A	X	X	Ethyl Bromide	X	X	B	B	-	B	-	A	-	X
Dimethylbenzene	X	C	X	X	X	-	A	A	X	X	Ethyl Butanoate	X	X	X	X	-	-	-	A	-	-
Dimethylcarbinol	A	B	A	A	A	B	A	A	A	X	Ethyl Butanol	-	A	A	A	A	-	B	A	-	-
Dimethylether	-	A	X	C	B	-	-	A	-	-	Ethyl Butyl Acetate	-	X	A	A	B	-	X	A	-	-
Dimethylformamide	X	C	X	B	X	-	A	A	A	X	Ethyl Butyl Alcohol	-	A	A	A	A	-	B	A	-	-
Dimethylketal	C	X	B	A	B	A	X	A	A	X	Ethyl Butyl Amine	-	B	B	A	C	-	-	A	-	-
Dimethylketone	C	X	B	A	B	A	X	A	A	X	Ethyl Butyl Ketone	-	X	X	B	X	-	X	A	-	-
Dimethylmethane	B	A	X	X	B	X	A	A	C	B	Ethyl Butyraldehyde	-	X	X	B	X	-	X	A	-	-
Dimethylphenol	-	X	X	X	X	-	A	A	-	-	Ethyl Butyrate	X	X	X	C	X	X	C	A	-	-
Dimethylphthalate	X	X	X	A	X	B	C	A	-	X	Ethyl Butyric Ester	X	X	X	C	X	X	C	A	-	-
Dimethylsulfate	-	X	X	B	X	-	X	A	-	X	Ethyl Caprylate	X	X	X	X	-	X	-	A	-	-
Dimethylsulfide	-	X	X	C	X	-	-	A	-	-	Ethyl Caprylic Ester	X	X	X	X	-	X	-	A	-	-
Dinitrobenzene	-	X	X	C	X	-	A	A	-	-	Ethyl Cellosolve	C	C	X	A	B	A	B	A	-	X
Dinitrotoluene	X	X	X	X	X	X	B	A	B	X	Ethyl Cellulose	B	B	B	A	B	B	A	A	C	B
Diocetyl Adipate	X	X	X	A	X	B	C	A	-	-	Ethyl Chloride	B	C	B	A	B	C	A	A	C	C
Diocetyl Amine	-	B	B	A	C	-	-	A	-	X	Ethyl Chlorocarbonate	C	-	X	-	C	-	A	A	-	X

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

ELASTOMER

ELASTOMER

CHEMICAL	ELASTOMER								CHEMICAL	ELASTOMER											
	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU		SI	AU/EU	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI	AU/EU
Ethyl Chloroformate	C	-	X	-	C	-	A	A	-	X	Ferric Salts	-	A	A	A	A	-	A	A	-	-
Ethyl Cyanide	B	X	A	A	-	A	X	A	-	-	Ferric Sulfate	A	A	A	A	A	A	A	A	B	B
Ethyl Diacetate	X	X	B	B	-	-	-	A	-	-	Ferric Sulphate	A	A	A	A	A	A	A	A	B	B
Ethyl Dichloride	X	X	X	C	X	B	B	A	C	X	Ferric Trichloride	B	A	A	A	A	A	A	A	A	A
Ethyl Dimethyl Acetate	X	X	X	X	-	X	-	A	-	-	Ferric Trisulfate	A	A	A	A	-	-	-	A	-	-
Ethyl Ether	X	B	X	C	B	X	X	A	C	X	Ferrous Acetate	-	X	X	A	-	X	A	-	-	-
Ethyl Formate	B	X	X	B	X	B	C	A	-	-	Ferrous Ammonium Sulfate - 30%	A	-	-	-	-	A	A	-	-	-
Ethyl Formic Ester	B	X	X	B	X	B	C	A	-	-	Ferrous Chloride	B	A	-	A	A	A	A	-	-	B
Ethyl Hexanol	X	C	X	A	B	A	B	A	-	X	Ferrous Hydroxide	-	B	C	B	-	C	A	-	-	-
Ethyl Hexoic Acid	-	C	C	C	B	-	-	A	-	-	Ferrous Nitrate	A	A	A	A	-	-	A	-	-	-
Ethyl Hexyl Acetate	-	X	X	A	B	-	X	A	-	-	Ferrous Sulfate	A	A	A	A	A	A	A	-	-	A
Ethyl Hexyl Alcohol	-	A	A	A	A	-	B	A	-	X	Ferrous Sulfide	-	A	A	A	A	-	A	A	-	-
Ethyl Hexyl Phthalate	X	X	X	B	-	-	-	A	-	-	Fluoroboric Acid	B	A	A	B	A	A	C	A	-	X
Ethyl Hydrate	A	A	A	A	A	A	B	A	A	X	Fluorinated Cyclic Ethers	-	-	-	B	-	A	A	A	-	-
Ethyl Hydroxide	B	B	A	A	-	-	-	A	-	-	Fluorine (Liquid)	C	X	X	X	X	C	B	A	X	X
Ethyl Iodide	X	X	X	C	X	C	B	A	-	-	Fluorobenzene	X	X	X	X	X	A	A	A	X	-
Ethyl Isobutyl Ether	X	X	X	X	B	X	-	A	-	-	Fluorocarbon Oils	-	-	-	A	-	A	-	A	-	-
Ethyl Isobutyrate	X	X	X	X	-	X	-	A	-	-	Fluorochloroethylene	X	X	X	X	-	-	A	-	-	-
Ethyl Mercaptan	X	X	X	X	X	X	B	A	-	A	Fluorolube	A	C	X	C	A	A	B	A	B	-
Ethyl Methyl Carbinol	A	A	A	A	-	-	A	A	-	-	Fluoromethane	X	X	X	B	-	A	-	A	-	-
Ethyl Methyl Ketone	X	X	X	B	X	A	X	A	C	X	Fluosilicic Acid	B	B	A	A	A	B	A	A	X	X
Ethyl Orthosilicate	A	A	C	A	A	A	A	A	-	-	Formaldehyde	B	B	B	A	A	A	A	A	A	-
Ethyl Oxalate	X	X	A	A	X	A	B	A	-	A	Formic	B	B	B	A	A	A	A	A	A	-
Ethyl Oxide	X	B	X	C	B	X	X	A	C	C	Formamide (Formylamine)	A	A	A	A	-	A	X	A	-	-
Ethyl Pentachlorobenzene	X	X	X	X	X	X	A	A	X	X	Formic Acid	B	C	C	A	A	B	C	A	B	X
Ethyl Phthalate	-	X	X	A	X	-	C	A	-	-	Formic Aldehyde - 40%	B	B	B	A	A	A	A	A	A	X
Ethyl Propionate	X	X	X	X	-	X	-	A	-	-	Formonitrile	C	B	B	B	A	B	A	A	A	C
Ethyl Propyl Ether	X	C	X	X	B	X	-	A	-	-	Freon 11	B	A	X	X	A	X	A	A	X	X
Ethyl Propyl Ketone	-	X	X	B	X	-	X	A	-	-	Freon 12	B	B	X	C	C	B	B	A	X	A
Ethyl Propyl Oxide	X	C	X	X	B	X	-	A	-	-	Freon 13	A	A	A	A	A	A	A	A	-	C
Ethyl Silicate	A	A	C	A	A	A	A	A	-	X	Freon 13 B1	A	A	A	A	A	A	A	A	A	X
Ethyl Sulfate	-	X	X	B	X	-	X	A	-	X	Freon 14	X	X	X	B	X	B	-	A	-	A
Ethyl Sulfhydrylate	X	X	X	X	X	X	B	A	-	-	Freon 21	X	X	X	X	X	X	X	A	X	-
Ethylene	-	B	-	-	A	C	A	A	-	B	Freon 22	B	X	X	B	A	C	X	A	X	X
Ethylene Alcohol	A	A	A	A	A	A	A	A	B	-	Freon 31	A	X	X	A	B	A	X	A	-	-
Ethylene Bromide	X	X	X	X	X	C	B	A	-	X	Freon 32	A	A	A	A	A	A	C	A	-	-
Ethylene Chloride	X	X	X	C	X	C	B	A	C	X	Freon T-P35	A	A	A	A	A	A	A	A	A	-
Ethylene Chlorohydrin	B	X	C	A	B	A	B	A	C	X	Freon 112	B	B	X	X	B	X	A	A	-	B
Ethylene Diamine	A	B	B	A	A	A	X	A	A	X	Freon 113	A	B	C	X	A	X	A	A	X	B
Ethylene Dibromide	X	X	X	X	X	C	B	A	-	X	Freon 114	A	A	C	A	C	A	A	A	X	A
Ethylene Dichloride	X	X	X	C	X	B	B	A	C	X	Freon 114B2	A	B	X	X	A	X	B	A	-	-
Ethylene Glycol	A	A	A	A	A	A	A	A	A	B	Freon 115	A	A	A	A	A	A	B	A	-	-
Ethylene Glycol Monobutyl Ether	C	B	X	A	B	A	C	A	-	X	Freon 142B	A	A	A	A	A	A	X	A	-	-
Ethylene Glycol Monoethyl Ether	X	C	C	A	X	A	A	A	C	X	Freon 152A	A	A	A	A	C	A	X	A	-	-
Acetate	A	C	X	A	B	B	X	A	-	-	Freon 218	A	A	A	A	A	A	A	A	-	-
Ethylene Glycol Monomethyl Ether	A	C	X	A	B	X	A	-	X	-	Franc C316	A	A	A	A	A	A	A	A	-	-
Ether	X	C	C	A	X	A	A	A	C	X	Freon C318	A	A	A	A	A	A	A	A	-	-
Ethylene Glycol Monoacetate	X	X	-	X	X	X	C	A	C	X	Freon 502	A	B	A	-	-	B	A	-	-	
Ethylene Monoacetate	X	X	X	X	X	X	A	A	C	X	Freon T-WD602	B	B	C	A	B	B	A	A	X	A
Ethylene Oxide	-	-	-	-	-	-	-	A	-	X	Freon BE	B	B	X	X	B	-	-	A	-	B
Ethylene Trichloride	A	A	A	A	A	B	A	A	X	-	Freon MF	C	A	X	X	X	-	-	A	-	X
Ethylic Acid	C	B	X	C	C	X	X	A	X	A	Freon TA	A	A	A	A	A	A	C	A	A	A
Ethylic Alcohol	X	X	X	C	-	X	-	A	-	-	Freon TC	A	A	X	A	A	B	A	A	X	A
Ethylic Ether	X	X	X	C	-	X	-	A	-	-	Freon TF	A	A	C	X	A	X	A	A	X	B
Ethylidene Chloride	X	X	X	C	-	X	-	A	-	-	Freon TMC	B	B	B	B	B	B	A	A	C	B
Ethylidene Dichloride	B	A	A	A	B	A	A	A	C	-	Fuel Oil	B	A	X	X	B	X	A	A	A	X
Ethylidene Perchloride	C	B	C	C	C	X	A	A	C	X	Fuels - ASTM - Ref: Fuel A	A	A	X	X	X	X	A	A	-	B
Ethyne	A	A	A	A	A	A	A	A	C	-	Fuels - ASTM - Ref: Fuel B	C	A	X	X	X	X	A	A	-	B
Fatty Acids	-	X	X	A	A	-	X	A	-	-	Fuels - ASTM - Ref: Fuel C	C	-	-	X	C	X	A	A	-	B
Fermentation Amyl Alcohol	-	A	A	A	A	-	A	A	-	-	Fuels - ASTM - Ref: # 1 Oil	B	A	X	X	B	X	A	A	-	B
Ferric Acetate	A	A	A	A	A	A	A	A	A	-	Fuels - ASTM - Ref: # 2 Oil	B	A	X	X	-	-	-	A	-	B
Ferric Bromide	A	A	A	A	A	A	A	A	-	A	Fuels - ASTM - Ref: # 3 Oil	B	A	X	X	C	X	A	A	-	B
Ferric Chloride	-	B	C	A	B	-	C	A	-	-	Fumaric Acid	B	C	B	X	B	-	A	A	B	-
Ferric Dichloride	A	A	A	A	A	A	A	A	C	A	Fumarole Acid	A	C	A	A	A	A	A	A	A	A
Ferric Hydroxide	B	A	A	B	-	-	-	A	-	-	Furaldehyde	C	X	X	A	B	A	X	A	C	X
Ferric Nitrate	A	A	A	A	-	-	-	A	-	-	Furan	X	X	X	X	X	X	C	A	-	X
Ferric Perchloride	-	A	A	A	A	-	A	A	-	-	Furfural	C	X	X	A	C	A	X	A	C	X
Ferric Persulfate	A	A	A	A	A	A	A	A	B	B	Ferfuraldehyde	C	X	X	A	C	A	X	A	C	X

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

ELASTOMER

ELASTOMER

CHEMICAL

CHEMICAL

CHEMICAL	ELASTOMER										CHEMICAL	ELASTOMER									
	CR	NBR	*NR*/PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royalene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)	AU/EU		CR	NBR	*NR*/PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royalene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)	AU/EU
Furfuran	X	X	X	X	X	X	C	A	-	X	Hydrazino Benzene	X	X	A	C	C	A	A	-	-	
Furfuryl Alcohol	-	-	-	C	-	-	X	A	-	X	Hydrobromic Acid	C	X	B	A	A	A	A	X	-	
Furof	C	X	X	A	C	A	X	A	C	X	Hydrobromic Acid Gas	X	X	B	A	-	-	A	-	X	
Furylcarbinol	-	-	-	C	-	-	X	A	-	X	Hydrocarbon - Alicyclic	X	B	X	X	X	X	A	X	B	
Fusel Oil	A	A	A	A	A	A	A	A	X	C	Hydrocarbons - Aliphatic	B	A	X	X	B	X	A	X	B	
Fryquel 220	-	-	-	-	-	-	A	A	-	X	Hydrocarbons - Aromatic	X	C	X	X	X	A	A	X	X	
Gallic Acid	C	X	A	B	B	B	A	A	-	X	Hydrocarbons - Chlorinated	X	X	X	-	X	A	A	-	-	
Gallotannic Acid	A	C	A	B	A	B	A	A	B	A	Hydrocarbons Normal	B	A	X	X	B	X	A	A	-	
Gasoline (Gasoline)	B	A	X	X	X	X	A	A	C	X	Hydrocarbons - Olefinic	-	A	-	-	-	A	A	-	-	
Gasoline. 40% Aromatic	B	B	X	X	X	X	A	A	-	B	Hydrocarbons - Saturated	-	A	X	X	X	A	A	-	B	
Gasoline - 65 Octane	B	A	X	X	X	X	A	A	-	B	Hydrochloric Acid - 10%, 6.6 BE	B	B	A	A	A	A	A	C	-	
Gasoline - 100 Octatne	B	A	X	X	X	X	A	A	-	C	Hydrochloric Acid - 20%	B	B	A	A	A	A	A	C	-	
Gaultheria Oil	X	X	X	B	C	B	A	A	-	-	Hydrochloric Acid - 25%, 16.0 BE	C	B	A	B	A	A	A	C	-	
Gelatin	A	A	A	A	A	A	A	A	A	X	Hydrochloric Acid - 30%, 30185	C	C	A	B	A	B	A	A	C	-
Glacial Acetic Acid	C	C	C	B	C	B	C	A	B	X	Hydrochloric Acid - 50%	X	X	A	C	B	C	A	A	C	-
Gluconic Acid	-	C	X	C	B	-	-	A	-	-	Hydrochloric Acid - 100%	X	X	B	C	B	C	C	A	X	-
Glucose	A	A	A	A	A	A	A	A	A	X	Hydrochloric Ether	B	C	B	A	B	C	A	A	C	C
Glycerin (Glycerine)	A	A	A	A	A	A	A	A	A	B	Hydrocyanic Acid	C	B	B	B	A	B	A	A	A	C
Glycerol	A	A	A	A	A	A	A	A	A	B	Hydrofluoric Acid	C	X	X	A	A	-	-	A	-	X
Glycerol Hydroxide	A	A	A	A	A	A	A	A	A	A	Hydrofluoric Acid - Anhydrous	C	X	X	C	A	C	A	A	X	X
Glycerol Triacetate	A	A	B	A	B	A	C	A	-	X	Hydrofluoric Acid - 10%	B	B	B	A	A	A	-	A	-	X
Glycerol Trioleate	C	B	X	B	-	-	-	A	-	-	Hydrofluoric Acid - 50%, 24.0 BE	C	X	C	B	A	B	-	A	-	X
Glycogenic Acid	-	C	X	C	B	-	-	A	-	-	Hydrofluoric Acid - 65%	C	X	C	B	A	B	X	A	-	X
Glycol	A	A	A	A	A	A	A	A	A	X	Hydrofluoric Acid - 75%, 30.1 BE	X	X	X	C	B	C	X	A	-	X
Glycol Acetate	X	C	C	A	X	A	A	A	C	X	Hydrofluoroboric Acid	-	-	A	-	-	-	-	A	-	X
Glycol Alcohol	B	B	A	A	-	-	-	A	-	-	Hydrofluosilicic Acid	B	B	A	A	A	B	A	A	X	X
Glycol Butyl Ether	C	B	X	A	B	A	C	A	-	-	Hydrogen Bromide	X	X	B	A	-	-	-	A	-	X
Glycol Chlorohydrin	B	X	C	B	B	A	C	A	-	-	Hydrogen Cyanide	B	B	X	A	-	-	-	A	-	-
Glycol Dibromide	X	X	X	X	X	C	B	A	-	X	Hydrogen Carboxylic Acid	C	B	B	B	A	B	A	A	A	X
Glycol Dichloride	X	X	X	C	X	C	B	A	C	X	Hydrogen Dioxide - 3%	B	B	B	B	B	A	A	A	A	X
Glycol Ethyl Ether	C	C	X	A	B	A	B	A	-	-	Hydrogen Dioxide - 10%	C	C	B	C	B	B	A	A	A	-
Glycol Monoacetate	X	C	C	A	X	A	A	A	C	X	Hydrogen Dioxide - 30%	X	C	C	C	C	B	A	A	A	-
Grain Alcohol	A	A	A	A	A	A	B	A	A	X	Hydrogen Dioxide - 90%	X	X	X	X	C	C	A	A	A	C
Grease	B	A	X	X	C	X	A	A	-	B	Hydrogen Gas	A	A	B	A	A	B	A	A	B	-
Green Copperas (Vitriol)	A	A	A	A	A	A	A	A	B	A	Hydrogen Oxide	C	A	A	A	A	A	A	A	A	A
Green Liquor	A	A	A	A	A	A	A	A	A	A	Hydrogen Peroxide - 3%	B	B	B	B	B	B	A	A	A	X
Green Sulfate Liquor	A	A	A	A	A	A	A	A	A	A	Hydrogen Peroxide - 10%	C	C	B	C	B	B	A	A	A	X
n-Heptane	A	A	X	X	B	X	A	A	-	B	Hydrogen Peroxide - 30%	X	C	C	C	C	B	A	A	A	X
Heptane Carboxylic Acid	-	C	X	C	B	-	-	A	-	-	Hydrogen Peroxide - 90%	X	X	X	X	C	C	A	A	A	X
Heptyl Aldehyde	-	A	X	X	X	-	-	A	-	-	Hydrogen Sulfide (Wet) (Cold)	B	C	C	A	A	A	A	A	B	A
Heptyl Carbinol	B	A	B	B	A	A	B	A	B	X	Hydrogen Sulfide (Wet) (Hot)	C	X	C	A	C	A	B	A	C	-
Heptyl Hydride	A	A	X	X	B	X	A	A	-	-	Hydrogen Sulfide - Dry (Hot/Cold)	C	X	C	A	C	A	B	A	C	-
Hexachlorodiphenylmethane	X	X	X	X	-	-	-	A	-	-	Hydroquinone	X	C	B	X	A	-	C	A	-	X
Hexahydrobenzene	B	A	X	X	B	X	A	A	X	B	Hydroxypropane Tricarboxylic Acid	B	B	A	A	-	-	-	A	-	-
Hexahydrophenol	A	B	C	X	C	C	A	A	-	-	Hydroxyacetic Acid - 15%	X	X	X	B	-	-	-	A	-	X
Hexahydropyridine	X	X	X	X	X	C	A	A	-	-	Hydroxybenzene	C	X	X	B	C	C	A	A	X	C
n-Hexaldehyde	A	X	X	A	X	B	C	A	B	B	Hydroxybutane	A	A	A	A	A	A	A	B	X	
Hexalin	A	B	C	X	C	C	A	A	-	-	Hydroxybutanedioic Acid	C	B	A	X	B	X	A	A	B	-
Hexamethylene	X	B	X	X	X	X	A	A	X	B	Hydroxyether	C	C	X	A	B	A	B	A	-	-
Hexanaphthalene	B	A	X	X	B	X	A	A	X	A	Hydroxyethyl Acetate	X	C	C	A	X	A	A	A	C	X
Hexane	B	A	X	X	B	X	A	A	-	B	Hydroxyethyl Amine	B	B	B	A	B	B	C	A	B	C
n-Hexane	B	A	X	X	B	X	A	A	-	B	Hydroxyformic Acid	A	A	A	A	A	A	A	A	A	A
Hexadecanoic Acid	X	B	A	X	-	-	-	A	-	-	Hydroxyoctane	A	A	B	B	A	X	B	A	-	-
Hexanol	B	A	A	B	A	B	B	A	B	X	Hydroxysuccinic Acid	C	B	A	X	B	X	A	A	B	-
n-Hexene-1	B	A	X	X	B	X	A	A	X	B	Hypnone	X	X	C	A	X	A	X	A	-	X
Hexone (Hexon)	X	X	X	B	X	B	X	A	C	X	Hypochlorous Acid	X	X	B	C	-	B	A	A	-	X
Hexyl Acetic Acid	-	C	C	C	B	-	-	A	-	-	Iodine (Iodum)	B	-	X	-	A	-	C	A	-	X
Hexyl Alcohol	B	A	A	B	A	B	B	A	B	X	Iodine Pentafluoride	X	X	X	X	X	X	X	A	X	X
Hexyl Hydride	B	A	X	X	B	X	A	A	-	B	Iron Acetate	-	X	X	A	A	-	X	A	-	-
Hexyl Methyl Ketone	-	X	X	B	X	-	X	A	-	-	Iron Chloride	B	A	A	A	A	A	A	A	A	A
Hexylamine	-	C	C	B	C	-	X	A	-	-	Iron Dichloride	B	A	A	A	A	A	A	A	A	A
Hexylene	B	A	X	X	B	X	A	A	X	A	Iron Hydroxide	-	B	C	A	B	-	C	A	-	-
Hexylene Glycol	A	A	A	A	A	C	A	A	-	-	Iron Monosulfide	-	A	A	A	A	-	A	A	-	-
Hydrated Baryta	A	A	A	A	A	A	A	A	A	A	Iron Nitrate	A	A	A	A	A	A	A	A	C	A
Hydrated Lime	A	A	A	A	B	A	A	A	A	A	Iron Perchloride	B	A	A	A	-	-	-	A	-	-
Hydraulic Fluids (Pydrauls)	X	X	X	X	B	A	A	A	X		Iran Persulfate	A	A	A	A	-	-	-	A	-	-
Hydraulic Oil (Petroleum)	B	A	X	X	B	C	A	A	C	-	Iron Protochloride	B	A	A	A	A	A	A	A	A	A
Hydrazine	C	B	-	A	B	A	C	A	C	X	Iron Sulfate	A	A	A	A	A	A	A	A	A	B

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

ELASTOMER

ELASTOMER

CHEMICAL	ELASTOMER								CHEMICAL	ELASTOMER											
	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU		SI	AU/EU	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI	AU/EU
Iron Sulfide	-	A	A	A	A	-	A	A	-	-	Lime Bisulfate	A	A	B	B	A	A	A	A	C	A
Iron Trichloride	B	A	A	A	A	A	A	A	A	A	Lime Bleach	B	A	B	A	B	A	A	A	B	-
Isoamyl Acetate	X	X	X	B	C	B	X	A	X	X	Lime Hydrate	A	A	A	A	A	A	A	A	A	A
Isoamyl Acetic Ester	X	X	C	B	C	B	X	A	X	X	Lime Nitrate	A	A	A	A	A	A	A	A	B	A
Isoamyl Alcohol	A	A	A	A	A	A	A	A	X	C	Lime Sulfur - Dry	A	X	X	C	B	C	A	A	A	A
Isoamyl Bromide	X	X	X	X	X	X	B	A	-	-	Lime Sulfur - Wet	A	A	B	C	B	C	A	A	-	-
Isoamyl Butyrate	-	X	X	C	X	-	X	A	-	-	Limestone	A	A	A	A	A	A	A	A	-	-
Isoamyl Chloride	X	X	X	C	X	X	A	A	-	-	Linolic Acid	X	B	X	X	C	X	A	A	B	-
Isoamyl Ether	X	C	X	X	C	X	-	A	-	-	Linseed Oil	B	A	X	A	B	B	A	A	X	B
Isoamyl Phthalate	-	X	X	A	X	-	C	A	-	-	Liquefied Petroleum Gas	B	A	X	X	B	X	A	A	C	C
Isobutane	-	A	X	X	X	-	A	A	-	A	Liquid Oxygen	X	X	X	X	-	-	-	A	-	X
Isobutanol	B	B	B	A	A	A	B	A	A	X	Luboil - (Lube Oils)	B	A	X	X	C	X	A	A	C	B
Isobutyl Acetate	X	X	X	B	C	C	A	-	-	-	Lubricating Oils crude & refined)	B	A	X	X	C	X	A	A	B	B
Isobutyl Alcohol	B	B	B	A	A	A	B	A	A	X	Lye	B	C	B	A	B	B	B	A	B	B
Isobutyl Aldehyde	C	X	C	B	X	B	X	A	C	C	Lysol	B	B	A	A	-	-	-	A	-	-
Isobutyl Amine	-	X	C	A	C	-	X	A	-	-	Magnesium Acetate	-	X	X	A	A	-	X	A	-	X
Isobutyl Bromide	-	X	X	X	X	-	B	A	-	-	Magnesium Ammonium Sulfate	A	-	-	-	-	A	A	A	-	-
Isobutyl n-Butyrate	X	-	-	-	-	-	C	A	-	-	Magnesium Bisulfite	B	B	B	B	-	-	-	A	-	-
Isobutyl Carbinol	A	A	A	A	A	A	A	A	X	C	Magnesium Carbonate	A	A	A	A	A	C	A	A	-	B
Isobutyl Chloride	-	X	X	X	X	-	B	A	-	-	Magnesium Chloride	A	A	A	A	A	A	A	A	A	A
Isobutyl Ether	-	B	X	X	B	-	-	A	-	-	Magnesium Hydrate	B	B	A	A	A	A	B	A	B	A
Isobutylene	-	C	X	X	X	-	A	A	-	X	Magnesium Hydroxide	B	B	A	A	A	A	A	A	B	X
Isobutylic Acid	B	X	A	A	-	A	-	A	-	-	Magnesium Nitrate	A	A	A	A	A	A	A	A	-	B
Isododecane	A	B	X	C	A	X	A	A	-	B	Magnesium Oxide	A	-	-	-	-	-	A	A	-	-
Isooctane	B	A	X	X	B	X	A	A	X	B	Magnesium Sulfate	A	A	A	A	A	A	A	A	A	X
Isopentane	-	A	X	X	X	-	A	A	-	B	Maleic Acid	A	X	B	C	C	C	A	A	-	B
Isopropanol	A	B	A	A	A	B	A	A	A	X	Maleic Anhydride	-	-	B	C	-	C	A	A	-	-
Isopropanol Amine	-	B	B	A	C	-	-	A	-	-	Maleic Acid - 25%	X	X	C	X	-	-	-	A	-	-
Isopropyl Acetate	X	X	X	B	X	B	X	A	-	X	Malic Acid	C	B	A	X	B	X	A	A	B	-
Isopropyl Alcohol	A	B	A	A	A	B	A	A	A	X	Malonyl Nitrile	A	A	A	A	-	A	-	A	-	-
Isopropyl Amine	-	X	B	B	-	-	X	A	-	-	Malt Salt	B	A	B	A	-	-	-	A	-	-
Isopropyl Benzene	X	X	X	X	X	X	A	A	-	X	Manganese Sulfate	A	A	B	A	A	-	A	A	-	A
Isopropyl Carbinol	B	B	B	A	A	A	B	A	A	X	Manganese Sulfide	-	A	C	A	A	-	A	A	-	-
Isopropyl Chloride	X	X	X	X	X	X	B	A	C	X	Manganese Sulfite	-	A	C	A	A	-	A	A	-	-
Isopropyl Dienacetone	X	X	X	X	-	-	-	A	-	-	M.E.K	X	X	X	B	X	A	A	C	X	
Isopropyl Ether	C	C	X	X	C	X	C	A	-	B	Mercuric Chloride	B	A	B	A	A	A	A	A	A	A
Isopropyl Methyl Benzene	X	X	X	X	X	X	A	A	X	-	Mercuric Cyanide	B	B	A	A	A	A	A	A	-	-
Isopropyl Toluene	X	X	X	X	X	X	A	A	X	-	Mercurous Nitrate	B	B	A	A	A	A	A	A	-	-
Jet Fuels (JPI to JP6, A & A1)	C	A	X	X	C	X	A	A	X	C	Mercury	A	A	A	A	A	A	A	A	A	B
Kerosene + Naphtha	B	A	X	X	C	X	A	A	X	A	Mercury Bichloride	B	A	B	A	A	A	A	A	A	-
Keto Hexamethylene	X	X	X	C	X	B	X	A	-	-	Mercury Chloride	B	A	B	A	A	A	A	A	A	-
Ketones: Aliphatic, Saturated	C	X	B	A	B	A	X	A	A	X	Mercury Vapor	X	X	X	X	-	-	-	A	-	-
Ketones Aliphatic, Unsaturated	X	X	X	B	X	A	X	A	C	X	Methadiene	X	C	X	X	X	X	A	A	-	-
Ketones, Aromatic	X	X	C	A	X	A	X	A	-	X	Methyl Alcohol	-	A	A	A	A	-	B	A	-	-
Ketopropane	X	X	X	A	-	-	-	A	-	-	Methanal 40%	B	B	B	A	A	A	A	A	A	X
Lacquer Solvents	X	X	X	X	X	X	X	A	X	X	Methanamide	A	A	A	A	-	A	X	A	-	-
Lacquer Solvents (Synthetic)	X	X	X	X	X	-	X	A	-	X	Methane	B	A	X	X	B	X	A	A	X	C
Lacquers	X	X	X	C	X	X	X	A	X	X	Methanol	A	A	A	A	A	B	C	A	A	X
Lacquers (Synthetic)	X	X	X	X	X	-	X	A	-	X	Methyl Acetate	C	X	X	B	B	A	X	A	C	X
Lactic Acid (Cold)	B	C	C	B	A	B	A	A	A	X	Methyl Acetoacetate	-	X	X	B	X	-	X	A	-	X
Lactic Acid (Hot)	C	C	C	C	B	C	C	A	-	X	Methyl Acetone	-	X	C	B	X	-	X	A	-	-
Lactol	X	C	X	X	B	A	A	-	-	-	Methyl Acrylate	C	X	X	C	-	B	X	A	-	X
Lard	B	A	X	X	C	C	A	A	B	C	Methyl Acrylic Acid	B	-	X	B	-	B	B	A	-	X
Lauryl Alcohol	-	A	A	A	A	-	B	A	-	C	Methyl Alcohol	A	A	A	A	A	A	B	A	A	X
Lead Acetate	A	B	B	A	A	A	X	A	X	X	Methyl Alcohol - Wood	A	A	A	A	A	-	X	A	-	-
Lead Chloride	B	B	B	-	A	-	-	A	-	-	Methyl Amine	A	B	A	A	X	A	-	A	-	-
Lead Nitrate	B	B	B	A	A	A	A	B	-	-	Methyl Amyl Amine	X	X	X	C	B	X	X	A	-	-
Lead Styphnate	A	B	B	A	-	-	-	A	-	-	Methyl Amyl Alcohol	-	A	A	A	A	-	X	A	-	-
Lead Sulfamate	A	B	B	A	A	A	A	B	-	-	Methyl Amyl Carbitol	-	A	A	A	A	-	B	A	-	-
Lead Sulfate	A	B	A	A	A	A	A	-	B	-	Methyl Amyl Ketone	-	X	X	B	X	-	X	A	-	-
Lead Tetraethyl	X	B	X	X	X	X	A	-	-	-	Methyl Aniline	A	A	A	A	-	A	-	A	-	X
Lead Trinitroresorcinol	A	B	B	A	-	-	-	A	-	-	Methyl Benzene	X	C	X	X	X	X	A	A	X	X
Light Aniline	C	X	X	A	C	B	A	A	B	C	Methyl Bichloride	X	X	X	X	X	C	B	A	-	X
Lime	A	A	A	A	A	-	-	A	-	-	Methyl Bromide	X	C	C	B	X	A	A	A	-	X
Lime Caustic	A	A	A	A	B	A	A	A	A	A	Methyl Butanol	A	A	A	A	A	-	B	A	-	-
Lime Soda	B	B	A	A	B	A	B	A	C	C	Methyl Butonone	-	X	X	B	X	-	X	A	-	-
Lime and Water	A	A	A	A	B	A	A	A	A	X	Methyl Butyl Ketone	X	X	X	B	X	B	X	A	B	X
Lime Acetate	X	B	C	A	-	-	-	A	-	-	Methyl Butyrate	X	X	X	X	-	X	-	A	-	-

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

ELASTOMER

ELASTOMER

CHEMICAL

CHEMICAL

CHEMICAL	ELASTOMER									CHEMICAL	ELASTOMER										
	CR	NBR	*NR*/PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royalene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)		AU/EU	CR	NBR	*NR*/PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royalene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)	AU/EU
Methyl Carbitol	-	C	X	A	A	-	-	A	-	-	Monomethyl Acetate	X	X	X	-	-	-	A	-	-	X
Methyl Cellosolve	A	C	X	A	B	B	X	A	-	X	Monovinyl Aresnate	B	A	B	A	B	A	A	A	B	-
Methyl Chloride	X	X	X	C	X	C	B	A	X	X	Muriate of Amonia	A	A	A	A	A	A	A	A	B	A
Methyl Cyanide	A	C	B	A	B	A	X	A	-	-	Muriatic Acid	X	X	A	C	-	C	A	A	-	X
Methyl Cyclohexane	-	X	X	X	X	-	B	A	-	-	Naphtha	C	A	X	X	C	X	A	A	C	X
Methyl Cyclopentane	C	B	X	X	X	X	A	A	-	X	Naphtha -Coal Tar	X	X	X	X	X	X	A	A	X	B
Methyl Ether	-	A	X	C	B	-	-	A	-	-	Naphthalene	X	X	X	X	X	A	A	X	B	
Methyl Ethyl Ketone	X	X	X	B	X	A	X	A	C	X	Naphthenic	-	B	X	X	-	X	A	A	-	-
Methyl Formate	B	X	X	B	C	A	X	A	B	X	Naphthylbenzene	X	X	X	X	-	-	A	-	-	-
Methyl Hexane	A	A	X	X	B	X	A	A	-	-	Natural Gas	A	A	C	C	A	C	A	A	B	C
Methyl Hexanol	-	A	A	A	A	-	B	A	-	-	Nickel Acetate	B	B	A	A	A	A	A	A	-	X
Methyl Hexanone	-	X	X	B	X	-	X	A	-	-	Nickel Ammonium Sulfate	A	-	-	-	-	A	A	-	-	-
Methyl Hexyl Carbinol	X	B	X	X	-	-	-	A	-	-	Nickel Chloride	A	A	A	A	A	A	A	A	A	X
Methyl Hexyl Ketone	-	X	X	B	X	-	X	A	-	-	Nickel Nitrate	A	A	A	A	A	A	A	A	-	-
Methyl Hydrate	A	A	A	A	A	B	C	A	A	-	Nickel Salts	A	A	A	A	-	-	A	-	-	X
Methyl Hydride	B	A	A	B	X	A	A	X	B	-	Nickel Sulfate	A	A	A	A	A	A	A	A	C	-
Methyl Hydroxide	A	A	A	A	A	B	C	A	A	X	Niter - Potassium Nitrate	A	A	A	A	A	A	A	A	A	A
Methyl Iodide	X	X	A	A	-	A	-	A	-	-	Niter- Sodium Nitrate	B	C	B	A	A	A	A	A	C	X
Methyl Isobutyl Carbinol	A	B	B	A	A	A	C	A	-	-	Nitric Acid - 10% 7.5 BE	B	X	X	A	A	B	A	A	B	-
Methyl Isobutyl Ketone	X	X	X	B	X	B	X	A	C	X	Nitric Acid- 25%	C	X	X	B	A	B	A	A	C	-
Methyl Isopropyl Ketone	X	X	X	B	X	C	X	A	C	X	Nitric Acid - 35%, 20.0 BE	X	X	X	C	A	C	A	A	C	-
Methyl Methacrylate	X	X	X	C	A	C	X	A	C	X	Nitric Acid - 50%	X	X	X	C	B	X	A	A	X	-
Methyl Methane	B	A	X	X	B	X	A	A	X	B	Nitric Acid - 69%, 42.1 BE	X	X	X	X	B	X	B	A	X	-
Methyl Normal Amyl Ketone	-	X	X	B	X	-	X	A	-	-	Nitric Acid - 86%, 46.5 BE	X	X	X	X	X	B	A	X	-	-
Methyl Oleate	X	X	X	B	-	C	B	A	-	-	Nitric Acid - Concentrated	X	X	X	X	B	X	B	A	X	-
Methyl Phenol	X	C	X	X	B	X	A	A	C	X	Nitric Acid - Crude	X	X	X	C	C	-	A	A	X	-
Methyl Polysiloxanes	X	A	X	X	-	-	-	A	-	A	Nitric Acid - Dilute	B	X	X	A	A	A	A	B	X	-
Methyl Propanol	A	A	A	A	A	A	A	B	X	-	Nitric Acid - Red Fuming, Inhibited	X	X	X	X	X	X	B	A	X	X
Methyl Propyl Benzene	X	X	X	X	-	-	-	A	-	-	Nitrobenzene	X	X	X	C	X	C	A	A	C	X
Methyl Propyl Carbinol	-	A	A	A	A	-	B	A	-	-	Nitrobenzine	X	-	-	C	X	C	A	A	-	-
Methyl Propyl Ether	-	X	X	X	B	-	-	A	-	-	Nitrocalcite	A	A	A	A	A	A	A	A	B	X
Methyl Propyl Ketone	X	X	X	B	X	B	X	A	-	-	Nitrocarbol	C	X	A	A	C	A	C	A	C	-
Methyl Salicylate	X	X	X	B	-	C	B	A	-	-	Nitroethane	C	X	B	B	B	B	C	A	C	-
Methylacetal	C	X	B	A	B	A	X	A	A	X	Nitrogen	A	A	A	A	A	A	A	A	A	B
Methylacrylic Acid	B	-	X	B	-	B	B	A	-	-	Nitrohydrochloric Acid	X	X	X	C	B	C	A	A	C	X
Methylallyl Acetate	-	X	X	A	B	-	X	A	-	-	Nitromethane	C	X	A	A	C	A	C	A	C	X
Methylallyl Chloride	-	X	X	C	X	-	C	A	-	-	Nitromuriatic Acid	X	X	X	C	B	C	A	A	C	X
Methylated Spirits	B	A	A	A	A	A	B	A	A	X	1-Nitropropane	C	X	C	B	-	A	C	A	C	X
Methylene Bromide	X	X	X	X	X	-	B	A	-	-	Nitrous Oxide	-	A	A	A	A	-	A	A	-	B
Methylene Chloride	X	X	X	X	C	B	A	-	X	-	Octachlorotoluene	X	X	X	X	X	X	A	A	X	X
Methylene Chlorobromide	X	X	X	X	-	-	-	A	-	-	Octadecane	B	A	X	X	B	X	A	A	X	A
Methylene Dichloride	X	X	X	X	-	-	-	A	-	X	Octadecanoic Acid	B	A	X	B	C	B	B	A	B	A
M.I.B.K	X	X	X	B	X	B	X	A	C	X	Octadecatrienoic Acid	X	C	X	B	-	-	-	A	-	-
Milk (Whole)	A	B	B	A	A	A	A	A	A	X	Octadecatrienoic Acid	X	C	X	B	-	-	-	A	-	-
Milk of Magnesia	B	B	A	A	A	A	A	B	X	-	Octafluorocyclobutane	X	X	X	X	-	-	-	A	-	X
Mineral Naphtha	C	A	X	X	C	X	A	A	C	C	n-Octane	-	A	X	X	X	X	A	A	X	X
Mineral Oil	B	A	X	X	B	X	A	A	A	A	Octanol	A	A	B	B	B	X	B	A	-	X
Mineral Spirits	C	A	X	X	B	X	A	A	-	B	2-Octanone	-	X	X	B	X	-	X	A	-	-
Mineral Thinner	X	X	X	X	-	-	-	A	-	-	n-Octene-2	C	-	-	-	-	-	A	A	-	-
Molasses	A	A	A	A	A	A	A	A	B	B	Octoic Acid	-	C	C	C	B	-	-	A	-	-
Molten Sulfur	A	B	B	B	A	A	A	B	B	-	Octyl Acetate	-	X	X	A	A	-	X	A	-	-
Monoammonium Phosphate	A	A	A	A	A	A	A	A	B	B	Octyl Alcohol	B	A	B	B	A	A	B	A	B	X
Monobromobenzene	X	X	X	X	X	-	A	A	X	X	n-Octyl Alcohol	A	A	B	B	A	X	B	A	-	X
Monobromo Trifluoromethane	X	X	X	X	-	-	-	A	-	-	Octyl Aldehyde	-	X	X	C	X	-	X	A	-	-
Monobutyl Ether	-	C	X	C	X	-	X	A	-	B	Octyl Amine	-	C	C	A	C	-	X	A	-	-
Monochloroethane	B	C	B	-	B	C	A	A	C	C	Octyl Carbinol	-	A	A	A	A	-	B	A	-	-
Monochloroacetic Acid	X	X	B	B	X	-	-	A	-	X	Octylene Glycol	-	A	A	A	A	-	A	A	-	-
Monochloroacetone	C	X	X	C	B	X	B	A	-	X	Octylic Acid	-	C	C	C	B	-	-	A	-	-
Monochlorobenzene	X	X	X	X	X	X	A	A	X	X	Octylic Alcohol	B	A	B	B	A	A	B	A	B	-
Monochlorodifluoromethane	X	X	X	C	X	-	X	A	-	X	Oil of Vitriol	X	X	X	X	C	C	A	A	X	-
Monochlorophenol	X	X	X	X	X	B	A	-	X	-	Oleic Acid	C	A	X	B	B	B	A	A	X	B
Monochlorotrifluoromethane	X	X	X	X	-	-	-	A	-	C	Olein	C	B	X	B	-	-	-	A	-	-
Monoethanolamine	C	B	B	A	B	B	C	A	B	X	Oleum	X	X	X	X	C	X	B	A	X	X
Monoethylamine	-	C	C	B	C	-	X	A	-	X	Oleum Lini	B	A	X	A	B	B	A	A	X	B
Monoisopropanol Amine	-	B	B	A	C	-	-	A	-	-	Oleum Spirits	X	C	X	X	C	C	A	A	X	C
Monomethyl Amine	X	X	X	X	X	X	C	A	-	-	Olive Oil	B	A	X	B	B	A	A	A	A	A
Monomethyl Aniline	X	X	X	X	X	C	A	-	X	-	Orthoboric Acid	A	A	A	A	A	A	A	A	A	A
Monomethyl Ether	B	A	C	A	-	A	A	-	-	-	Orthodichlorobenzene	X	X	X	X	X	-	A	A	-	X
											Orthodichlorobenzol	-	X	X	X	X	-	A	A	-	X

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

ELASTOMER

ELASTOMER

CHEMICAL	ELASTOMER									CHEMICAL	ELASTOMER										
	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI		AU/EU	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI	AU/EU
Ortho-Hydroxybenzoic Acid	X	X	C	C	-	-	-	A	-	-	Phenolates	X	X	X	-	X	-	B	A	-	X
Orthoxylene	-	X	X	X	X	A	A	A	-	X	Phenols	B	X	A	-	B	-	B	A	-	-
Oxalic Acid	B	C	B	A	B	A	C	A	B	X	Phenoxide	X	X	X	-	-	-	B	A	-	-
Oxyethyleue Succinic Acid	C	B	A	X	B	X	A	A	B	-	Phenoxin	X	C	X	X	X	X	A	A	X	C
Oxygen - Cold	A	C	B	A	A	B	A	A	A	A	Phenoxybenzene	X	X	X	X	C	X	A	A	C	-
Oxygen - Hot	X	X	X	X	X	X	B	A	B	X	Phenyl Acetate	X	X	C	B	C	B	X	A	X	X
Oxymethylene - 40%	C	C	C	B	-	-	-	A	-	-	Phenyl Aldehyde	X	X	X	B	X	B	X	A	C	X
Oxymuriate of Tin	A	A	A	B	A	B	A	A	B	B	Phenyl Amine	C	X	X	A	C	B	A	A	B	C
Ozone	B	X	X	A	A	A	A	A	A	A	Phenyl Benzene	X	X	X	X	X	X	A	A	C	X
Palmitic Acid	B	A	C	B	B	B	A	A	C	A	Phenyl Bromide	X	X	X	X	X	X	B	A	X	X
Para Dichlorobenzene	X	X	X	X	X	X	A	A	-	X	Phenyl Carbinol	C	X	C	A	B	C	A	A	-	-
Para Dichlorobenzene	X	X	X	X	X	X	A	A	-	-	Phenyl Chloride	X	X	X	X	X	X	A	A	X	X
Para Dichlorobenzol	X	X	X	X	X	X	A	A	-	-	Phenyl Ethane	X	X	X	X	X	X	A	A	X	X
Paradihydroxybenzene	X	X	C	X	-	-	-	A	-	-	Phenyl Ether	X	X	X	X	C	X	A	A	C	-
Parafins	-	A	X	X	X	X	A	A	-	A	Phenyl Ethyl Ether	X	X	X	X	X	X	C	A	-	X
Paraform	B	B	X	B	-	-	C	A	-	-	Phenyl Formic Acid	A	X	B	A	B	B	A	A	B	-
Paraformaldehyde	B	B	X	B	-	-	C	A	-	-	Phenyl Hydrazine	X	X	A	C	C	C	A	A	-	-
Paraldehyde	B	C	C	A	X	A	X	A	-	-	Phenyl Hydride	X	X	X	X	X	X	A	A	X	X
Paraxylene	X	C	X	X	X	X	A	A	X	C	Phenyl Hydroxide	C	X	X	B	C	C	A	A	X	C
Pentachlorodiphenyl	X	X	X	X	-	-	-	A	-	-	Phenyl Methane	X	C	X	X	X	X	A	A	X	X
Pentachlorodiphenyl Oxide	X	X	X	X	-	-	-	A	-	-	Phenyl Methyl Ketone	X	X	C	A	X	A	X	A	-	X
Pentachloroethane	X	X	X	X	X	-	-	A	-	-	Phenylic Acid	C	X	X	B	C	C	A	A	X	C
Pentachloroethylbenzene	X	X	X	X	-	-	-	A	-	-	Phosphate Esters	X	X	X	A	X	C	A	A	A	X
Pentachlorophenol	X	X	X	A	-	X	A	A	-	X	Phosphoric Acid - 10%	B	A	A	A	A	A	A	A	C	-
Pentachlorophenylbenzoate	X	X	X	X	-	-	-	A	-	-	Phosphoric Acid - 20%	B	C	B	A	A	A	A	A	C	-
Pentachlorodiphenyl Ketone	X	X	X	X	-	-	-	A	-	-	Phosphoric Acid - 50%	B	X	C	B	A	B	A	A	C	-
Pentahydroxy Hexoic Acid	-	C	X	C	B	-	-	A	-	-	Phosphoric Acid - 85%	B	X	C	B	B	B	A	A	X	-
Pentamethylene Amine	X	X	X	X	X	X	C	A	-	X	Phosphoric Acid - Concentrated	B	X	C	B	B	B	A	A	X	-
Pentane	B	A	X	X	C	X	A	A	-	X	Phosphoric Acid - Crude	C	C	C	C	A	C	A	A	C	-
N Pentane, 2 Methyl, 2,4 Methyl & 3 Methyl	A	-	-	-	-	-	-	A	A	-	Phosphorous Trichloride Acid	X	X	X	X	X	X	A	A	A	-
2,4- Pentane Dione	X	X	C	B	X	A	X	A	-	B	Pinene	X	B	X	X	X	X	A	A	X	B
Pentanoic Acid	X	X	A	A	-	-	-	A	-	-	Piperidine	X	X	X	X	X	X	C	A	-	X
Pentanol	A	A	A	A	A	A	A	A	X	C	Pitch	B	A	X	X	B	X	A	A	X	B
Pentanone	X	X	X	B	X	B	X	A	-	-	Plating Solution - Arsenic	-	-	B	-	-	-	-	A	-	-
Pentanol	A	A	A	A	A	-	-	A	-	-	Plating Solution - Brass	-	-	B	A	-	-	-	A	-	-
Pentasodium Triphosphate	X	X	X	-	-	-	-	A	-	-	Plating Solution - Cadmium	B	B	A	A	-	-	-	A	-	-
Pentene	A	B	X	X	X	X	A	A	-	-	Plating Solution - Chrome	X	X	X	A	C	A	A	A	C	-
Pentene -2, 4 - Methyl	B	-	-	-	-	-	-	A	A	-	Plating Solution - Copper	-	-	B	A	-	-	-	A	-	X
Pentyl Amine	X	C	C	B	C	X	X	A	-	-	Plating Solution - Gold	-	-	B	A	-	-	-	A	-	-
Pentyl Oxypentane	X	C	X	X	C	X	-	A	-	-	Plating Solution - Iron	-	A	B	-	-	-	-	A	-	-
Perchloric Acid	A	X	A	B	A	B	A	A	X	X	Plating Solution - Lead	B	B	A	A	-	-	-	A	-	-
Perchloroethylene	X	X	X	X	X	X	A	A	C	X	Plating Solution - Nickel	-	-	B	-	-	-	-	A	-	-
Perchloromethane	X	X	X	X	-	-	-	A	-	-	Plating Solution - Others	A	A	A	A	A	A	A	A	C	-
Permachlor	-	X	-	-	-	X	C	A	-	-	Plating Solution - Platinum	A	-	-	-	-	-	-	A	-	-
Peroxide - 3%	B	B	B	B	B	B	A	A	A	-	Plating Solution - Silver	-	-	B	A	-	-	-	A	-	-
Peroxide - 10%	C	C	B	C	B	B	A	A	A	-	Plating Solution - Tin	-	-	-	A	-	-	-	A	-	-
Peroxide - 30%	X	C	C	C	C	B	A	A	A	-	Plating Solution - Zinc	-	-	B	A	-	-	-	A	-	-
Peroxide - 90%	X	X	X	X	C	C	A	A	A	-	Polyethylene Glycol	-	A	A	A	A	-	A	A	-	-
Peroxydol	B	B	B	A	A	A	A	A	B	-	Polyformaldehyde	X	X	X	X	-	-	-	A	-	-
Peroxyhydrate	A	A	A	A	-	-	-	A	-	-	Polyoxymethylene	B	B	X	B	-	-	C	A	-	-
Penn Saltpeper	B	C	B	A	A	A	A	C	-	-	Polypropylene Glycol	-	A	A	A	A	-	A	A	-	-
Petrol	B	A	X	X	X	X	A	A	C	C	Polyvinyl Acetate Emulsion	B	-	-	A	B	A	-	A	-	-
Petrolene	B	A	X	X	B	X	A	A	X	B	Potash	B	C	B	A	A	B	C	A	A	C
Petroleum - Below 250 F	B	A	X	X	C	X	A	A	B	-	Potash - Alum	A	A	A	A	A	A	A	A	A	C
Petroleum - Above 250 F	X	C	X	X	X	X	B	A	X	-	Potash - Caustic	B	C	B	A	A	B	C	A	A	-
Petroleum - Crude	C	A	X	X	X	X	A	A	C	-	Potassa	B	C	B	A	A	B	C	A	A	-
Petroleum Ether	B	A	X	X	X	X	A	A	C	B	Potassium Acetate	B	B	B	A	B	A	B	A	-	-
Petroleum Naphtha	B	A	X	X	X	X	A	A	A	-	Potassium Alum	A	A	A	A	A	A	A	A	A	-
Petroleum Oils	B	A	X	X	X	-	A	A	-	B	Potassium Aluminum Sulfate	A	A	A	A	A	A	A	A	A	-
Petroleum Pitch	B	A	X	X	B	X	A	A	X	B	Potassium Bicarbonate	A	A	A	-	A	-	A	A	-	-
Petroleum Spirit	B	A	X	X	X	X	A	A	A	-	Potassium Bichromate	B	A	X	A	B	A	A	A	A	-
Petroleum Thinner	X	X	X	X	-	-	-	A	-	-	Potassium Bisulfate	A	A	A	A	A	-	A	A	-	-
Phenic Acid	C	X	X	B	C	C	A	A	X	C	Potassium Bisulfite	A	A	A	A	A	-	A	A	-	-
Phenmethylol	C	X	C	A	B	C	A	A	-	-	Potassium Borate's	A	A	A	A	A	A	A	A	-	-
Phenol	C	X	X	B	C	C	A	A	X	X	Potassium Bromide	A	A	A	A	A	A	A	A	-	-
Phenol Polysiloxane	X	A	X	X	-	-	-	A	-	-	Potassium Carbonate	A	A	A	A	A	A	A	A	-	-
Phenol Sulfonic Acid	-	X	X	C	X	-	X	A	-	-	Potassium Chlorate	A	A	A	A	A	A	A	A	-	-
Phenol Trinitrate	X	X	X	X	-	-	-	A	-	-	Potassium Chloride	A	A	A	A	A	A	A	A	-	-

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

ELASTOMER

ELASTOMER

CHEMICAL

CHEMICAL

CHEMICAL	ELASTOMER									CHEMICAL	ELASTOMER									
	CR	NBR	*NR*/PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royalene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)		AU/EU	CR	NBR	*NR*/PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royalene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)
Potassium Chromate	-	-	-	B	C	-	-	A	-	Pyrrrole	X	X	C	B	-	C	C	A	B	
Potassium Chromic Sulfate	A	A	A	A	-	-	-	A	-	Quicklime	A	A	A	A	A	A	-	A	-	
Potassium Cupro Cyanide	A	A	A	A	A	A	A	A	A	Quicksilver	A	A	A	A	A	A	A	A	A	
Potassium Cyanide	A	A	A	A	A	A	A	A	A	Radiation	B	B	B	C	B	C	B	A	B	
Potassium Dichromate	B	A	-	A	B	A	A	A	A	Rapeseed Oil	B	B	X	A	B	A	A	A	X	
Potassium Hydrate	B	C	B	A	A	B	C	A	A	Raw Linseed Oil	B	A	X	B	B	B	A	A	X	
Potassium Hydroxide	B	C	B	A	A	B	C	A	A	Richfield "A" 100%	X	C	X	X	X	X	C	A	-	
Potassium Hypochlorite	C	X	C	C	B	-	-	A	-	Ricin Oil (Ricinine)	A	A	B	A	A	B	A	A	A	
Potassium Iodide	A	A	-	-	A	A	A	A	-	Rock Salt	A	B	A	A	A	A	A	A	A	
Potassium Muriate	A	A	A	A	A	A	A	A	A	Rosin Oil	A	A	-	X	B	-	A	A	-	
Potassium Nitrate	A	A	A	A	A	A	A	A	A	Rum	A	A	A	A	A	A	B	A	A	
Potassium Nitrite	A	A	A	A	A	A	A	A	A	Saltier (Salitre)	B	C	B	A	A	A	A	A	C	
Potassium Oxide	A	B	A	A	-	-	-	A	-	Salt	A	A	A	A	A	A	A	A	A	
Potassium Permanganate	C	C	A	A	B	A	A	A	-	Salt Cake	A	A	A	A	A	A	A	A	A	
Potassium Phosphate	A	-	-	-	A	A	A	A	-	Salt of Tartar	A	A	A	A	A	A	A	A	-	
Potassium Silicate	A	A	A	A	A	A	A	A	-	Salt of Vitriol	A	A	A	A	A	A	A	A	A	
Potassium Sulfate	A	A	A	A	A	A	A	A	A	Salt Water	B	B	A	A	A	A	A	A	A	
Potassium Sulfide	A	A	A	A	A	A	A	A	A	Saltpeter - Ammonium Nitrate	A	A	A	A	A	A	A	A	B	
Potassium Sulfite	A	A	A	A	A	A	A	A	-	Saltpeter - Calcium Nitrate	A	A	A	A	A	A	A	A	A	
Potassium Sulphate	A	A	A	A	A	A	A	A	A	Saltpeter - Potassium Nitrate	A	A	A	A	A	A	A	A	A	
Potassium Thiosulfate	A	A	A	-	A	-	A	A	-	Saltpeter - Sodium Nitrate	B	C	B	A	A	A	A	A	C	
Propane	B	A	X	X	B	X	A	A	C	Sea Salt	A	A	A	A	A	A	A	A	A	
Propanediamine	-	B	B	A	C	-	-	A	-	Sea Water	B	B	A	A	A	A	A	A	A	
Propanediol	-	A	A	A	A	A	A	A	-	Sewage	A	A	C	B	A	B	A	A	A	
Propanetriol	A	A	A	A	A	A	A	A	A	Sewerage	A	A	C	B	A	B	A	A	A	
Propanol	A	B	A	A	A	B	A	A	A	Silicate Esters	B	A	X	B	A	X	A	A	C	
2 - Propanone	C	X	B	A	B	A	X	A	A	Silicate of Soda	A	A	A	A	A	A	A	A	A	
Propenal	-	B	B	A	B	-	A	A	-	Silicofluoric Acid	B	B	A	A	A	B	A	A	X	
Propene	X	X	X	X	X	X	A	A	-	Silicone Greases	A	A	B	B	A	A	A	A	B	
Propose Oxide	X	-	-	B	X	B	-	A	X	Silicone Oils	C	A	C	C	A	A	A	A	B	
Propenol	A	A	A	A	A	A	B	A	-	Silver Cyanide	A	-	A	-	-	-	-	A	-	
Propenyl Hydrate	A	A	A	A	A	A	A	A	A	Silver Nitrate	A	B	A	A	A	A	A	A	A	
Propenyl Anisole	-	X	X	X	X	-	B	A	-	Slaked Lime	A	A	A	A	B	A	A	A	A	
Propionic Acid	X	X	A	A	-	A	-	A	-	Soap Solutions	B	A	B	A	A	A	A	A	A	
Propionitrile	B	X	A	A	-	A	X	A	-	Soda	A	A	A	A	A	A	A	A	A	
Propyl Acetate	X	X	X	B	C	C	X	A	C	Soda Alum	A	A	A	A	A	A	A	A	A	
n-Propyl Acetate	X	X	X	B	-	A	X	A	-	Soda Ash	A	A	A	A	A	A	A	A	A	
Propyl Acetone	X	X	X	A	-	-	-	A	-	Soda - Baking	A	A	A	A	A	A	A	A	A	
Propyl Alcohol	A	B	A	A	A	B	A	A	A	Soda - Caustic	B	B	A	A	B	A	B	A	C	
Propel Aldehyde	-	X	C	B	X	-	X	A	-	Soda - Lime	B	B	A	A	B	A	B	A	C	
Propyl Chloride	-	X	X	C	X	-	B	A	-	Soda - Niter	B	C	B	A	A	A	A	A	C	
Propyl Cyanide	X	X	X	A	-	A	-	A	-	Soda - Saltpeter	B	C	B	A	A	A	A	A	C	
Propyl Ethylene	A	C	X	X	-	X	-	A	-	Soda - Washing	A	A	A	A	A	A	A	A	A	
Propyl Formic Acid	X	X	X	X	-	-	-	A	-	Sodium Acetate	B	C	C	A	A	A	X	A	-	
Propyl Nitrate	-	-	-	B	C	B	C	A	C	Sodium Acid Carbonate	A	A	A	A	A	A	A	A	A	
Propylene	X	X	X	X	X	X	A	A	-	Sodium Acid Sulfate	A	B	A	A	-	-	-	A	-	
Propylene Aldehyde	-	X	X	A	X	-	X	A	-	Sodium Alum	A	A	A	A	A	A	A	A	A	
Propylene Chloride	X	X	X	X	X	X	B	A	-	Sodium Aluminate	-	A	A	A	A	-	A	A	-	
Propylene Diamine	-	B	B	A	C	-	-	A	-	Sodium Aluminum Sulfate	A	A	A	A	A	A	A	A	A	
Propylene Dichloride	X	X	X	X	X	X	B	A	-	Sodium Arsenate	-	-	A	A	-	-	-	A	-	
Propylene Glycol	-	A	A	A	A	A	A	A	-	Sodium Benzoate	-	-	A	A	-	-	-	A	-	
Propylene Oxide	X	-	-	B	X	B	-	A	X	Sodium Bicarbonate	A	A	A	A	A	A	A	A	A	
Protochloride	B	-	A	A	-	-	-	A	-	Sodium Bichromate	B	-	X	A	B	A	A	A	-	
Prussic Acid	C	B	B	B	A	B	A	A	A	Sodium Bisulfate	A	A	A	A	A	A	A	A	A	
Pyracetic Acid	C	C	C	A	B	B	A	A	A	Sodium Bisulfite	A	A	A	A	A	A	A	A	A	
Pyranol	X	A	X	X	X	X	A	A	B	Sodium Bisulfate	A	A	A	A	A	A	A	A	A	
Pyranol 1467	A	-	-	-	X	-	A	-	-	Sodium Borate	A	-	A	A	A	A	A	A	A	
Pyranol 1476	B	A	-	-	-	X	A	A	-	Sodium Bromides	-	-	A	A	-	-	-	A	-	
Pydraul F-9	X	X	X	X	-	-	-	A	-	Sodium Carbonate -1	A	A	A	A	A	A	A	A	A	
Pydrauls, General	X	X	X	A	X	B	A	A	B	Sodium Carbonate -2	A	A	A	A	A	A	A	A	A	
Pyridine	X	X	X	A	X	B	C	A	-	Sodium Carbonate -3	A	A	A	A	A	A	A	A	A	
Pyridine Oil	-	X	-	-	-	-	X	A	-	Sodium Chlorate	B	A	A	B	A	A	A	A	-	
Pyrite	-	A	A	A	A	-	A	A	-	Sodium Chlorite	A	A	A	A	A	A	A	A	A	
Pyroacetic Ether	X	X	X	A	-	-	-	A	-	Sodium Chromate	-	-	-	B	C	-	-	A	-	
Pyroacetic Spirit	C	X	B	A	B	A	X	A	A	Sodium Cyanide	A	A	A	A	A	A	A	A	A	
Pyrogallolcarboxylic Acid	C	X	A	B	B	B	A	A	-	Sodium Dichromate	B	-	X	A	B	A	A	A	-	
Pyroigneous Acid	C	C	C	B	B	B	A	A	A	Sodium Dimetaborate	A	B	A	A	A	A	A	A	B	
Pyroxylic Spirit	A	A	A	A	A	B	C	A	A	Sodium Dioxide	B	B	B	A	A	B	A	A	C	

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

ELASTOMER

ELASTOMER

CHEMICAL	ELASTOMER								CHEMICAL	ELASTOMER										
	CR	NBR	*NR/*PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royaltene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)		SI (Silicone)	AU/EU	CR	NBR	*NR/*PGR (Pure Gum Runner)	CIIR (Chlorobutyl)	CSM (Hypalon™)	EPDM (Nordel™, Royaltene™)	FPM/FKM (Viton™, Fluorel™)	AFMU (Teflon™)	SI (Silicone)
Sodium Diphosphate	B	A	A	A	-	-	-	A	-	Sulfuric Acid - 25%	B	C	B	B	A	B	A	A	X	X
Sodium Disulfite	A	A	B	A	-	-	-	A	-	Sulfuric Acid - 50%, 41 BE	B	C	B	B	A	B	A	A	X	X
Sodium Fluoride	A	A	A	A	-	A	A	A	-	Sulfuric Acid - 60%, 48 BE	C	X	C	B	A	B	A	A	X	X
Sodium Hexametaphosphate	B	B	A	A	-	-	-	A	-	Sulfuric Acid - 75%, 58 BE	X	X	X	B	B	C	A	A	X	X
Sodium Hydrate	B	C	A	A	B	A	B	A	C	Sulfuric Acid - 95%, 66 BE	X	X	X	X	C	C	A	A	X	X
Sodium Hydrochlorite	C	C	C	B	A	B	A	A	B	Sulfuric Acid - 100%	X	X	X	X	C	X	B	A	X	X
Sodium Hydrogen Carbonate	A	A	A	A	A	A	A	A	A	Sulfuric Acid Concentrated	X	X	X	X	C	C	A	A	X	X
Sodium Hydrogen Sulfate	A	A	A	A	A	A	A	A	A	Sulfuric Acid - Dilute	A	B	A	A	A	A	A	A	B	X
Sodium Hydroxide	B	C	A	A	B	A	B	A	C	Sulfuric Acid - Fuming	X	X	X	X	C	X	B	A	X	X
Sodium Hypochloride	C	X	C	B	A	C	A	A	-	Sulfuric Acid - Oleum	X	X	X	X	C	X	B	A	X	X
Sodium Hypochlorite - 5%	C	C	C	B	A	B	A	A	B	Sulfuric Ether	X	B	X	C	B	X	A	A	C	C
Sodium Hypochlorite - 20%	X	X	X	C	A	C	-	A	-	Sulfurous Acid - 10%	X	X	B	A	A	-	A	A	-	X
Sodium Hyposulfite	A	A	A	A	A	A	A	A	A	Sulfurous Acid - 10% To 75%	X	X	B	A	A	-	A	A	-	X
Sodium Iodine	A	-	-	-	-	-	A	A	-	Sulfurous Acid - 100%	X	X	B	B	A	C	A	A	C	X
Sodium Metaphosphate	C	B	A	A	B	A	A	A	A	Sulfurous Acid Anhydride	C	C	C	B	A	C	A	A	A	X
Sodium Nitrate	B	C	B	A	A	A	A	A	-	Sulfurous Oxchloride	X	X	X	X	-	-	A	-	-	-
Sodium Nitrite	A	-	-	-	A	-	A	A	C	Sulfite Liquors	A	A	B	A	A	B	A	A	X	-
Sodium Perborate	B	B	B	A	B	A	A	A	B	Superphosphoric Acid	-	-	-	X	-	-	A	-	-	X
Sodium Peroxide	B	B	B	A	B	A	A	A	C	Tall Oil	B	A	X	X	C	X	A	A	-	A
Sodium Phosphates	B	B	A	A	A	A	A	A	C	Tallol	B	A	X	X	C	X	A	A	-	-
Sodium Pyroborate	A	B	A	A	A	A	A	A	B	Tallow	B	A	X	B	C	A	A	A	B	A
Sodium Salt	A	-	A	-	A	-	A	A	-	Tan	A	C	A	C	A	C	A	A	B	A
Sodium Sesquicarbonate	A	A	A	A	-	-	-	A	-	Tannic Acid	A	C	A	C	A	C	A	A	B	A
Sodium Silicate Sulfate	A	A	A	A	-	-	-	A	-	Tannin	A	C	A	C	A	C	A	A	B	A
Sodium Silicate	A	A	A	A	A	A	A	A	A	Tanning Liquors	A	A	-	X	B	-	A	A	-	X
Sodium Stannic Chloride	X	B	A	A	-	-	-	A	-	Tanning Solutions	A	A	B	A	-	-	-	A	-	-
Sodium Subulfite	A	A	A	A	A	A	A	A	A	Tar, Bituminous	C	B	X	X	C	X	A	A	B	B
Sodium Sulfates	A	A	A	A	A	A	A	A	A	Tar Camphor	X	X	X	X	X	X	A	A	X	B
Sodium Sulfide	A	A	A	A	A	A	A	A	A	Tarfaric Acid	C	B	A	B	A	B	A	A	A	B
Sodium Sulfates	A	A	A	A	A	A	A	A	A	Tertiary Butyl Alcohol	A	A	A	A	A	A	B	A	B	X
Sodium Tetraborate	A	A	A	A	A	A	A	A	B	Tertiary Butyl Caltechol	B	X	C	B	B	B	A	A	-	X
Sodium Thiocyanate	A	A	A	A	A	A	A	A	-	P-Tertiary Butyl Catechol	A	X	C	A	-	-	A	A	-	-
Sodium Triphosphates	A	A	A	A	-	-	-	A	-	Tertiary Butyl Mercaptan	X	X	X	X	X	X	A	A	-	X
Solene	B	A	X	X	X	X	A	A	C	Tetrabromoethane	X	X	X	X	-	-	-	A	-	-
Soya Oil (Soy Oil)	B	A	X	A	A	B	A	A	X	Tetrabromomethane	X	X	X	X	-	X	A	A	X	-
Soybean Oil	B	A	X	A	A	B	A	A	X	Tetrabutyl Titanate	A	B	B	B	A	B	A	A	-	-
Spirit	A	A	A	A	A	B	A	A	X	Tetrachlorobenzene	-	X	X	X	X	-	B	A	-	-
Spirits of Turpentine	C	A	X	X	X	X	X	A	C	Tetrachlorodifluorothane	X	X	X	X	-	-	-	A	-	B
Sprints of Vinegar	B	C	B	B	B	A	C	A	A	Tetrachlorodifluoromethane	X	X	X	X	-	-	-	A	-	-
Sprints of Wine	A	A	A	A	A	B	A	A	X	Tetrachloroethane	X	X	X	X	X	X	A	A	C	X
Stannic Chloride	A	A	A	B	A	B	A	A	B	Tetrachloroethylene	X	X	X	X	X	X	A	A	C	X
Stannous Sulfide	-	A	A	A	A	-	-	A	-	Tetrachloromethane	X	C	X	X	X	X	A	A	X	C
Stannous Chloride	A	A	A	B	A	B	A	A	B	Tetrachloronaphthalene	-	X	X	X	X	-	B	A	-	-
Stannous Sulfide	-	A	A	A	A	-	-	A	-	Tetradecanol	-	A	A	A	A	-	B	A	-	-
Steam -To 225 F	C	C	C	B	B	A	X	A	X	Tetraethyl Lead	X	B	X	X	X	X	A	A	-	B
Steam - 225 F To 300 F	X	X	X	B	C	A	X	A	X	Tetraethyl Orthosilicate	A	A	X	A	-	-	-	A	-	-
Steam Over 300 F	X	X	X	X	X	C	X	A	X	Tetraethylene Glycol	-	A	A	A	A	-	A	A	-	-
Stearic Acid	B	A	X	B	C	B	A	A	B	Tetrafluoromethane	X	X	X	B	X	B	-	A	-	-
Styrene	X	X	X	X	X	X	A	A	B	Tetrahydrofuran	C	X	X	B	X	C	X	A	-	X
Sucrose Solution	A	A	A	A	A	A	A	A	X	Tetrahydronaphthalene	X	X	X	X	X	X	A	A	C	X
Sugar Liquors - Cone, Beet & Maple	A	A	A	A	A	A	A	A	-	Tetralin	X	X	X	X	X	X	A	A	C	X
Sulfamic Acid	A	A	B	A	A	B	A	A	X	Tetrane	B	A	X	X	A	C	A	A	-	A
Sulfite Cellulose Liquors	A	A	B	A	A	B	A	A	X	Tetrol	X	X	X	X	X	X	C	A	-	-
Sulfitic Liquors	-	X	X	X	C	-	X	A	-	Thioethyl Alcohol	X	X	X	X	X	X	B	A	-	-
Sulfonic Acid	B	B	C	B	A	A	A	A	B	Thionyl Chloride	X	X	X	X	-	X	A	A	-	-
Sulfur	X	-	X	C	C	A	B	A	-	Thiophene (Thiopen)	X	X	X	C	-	X	C	A	-	-
Sulfur - 250 F	C	C	X	X	A	X	A	A	C	Tin Bichloride	A	A	A	B	A	B	A	A	B	B
Sulfur Chloride	C	C	C	B	A	A	A	A	X	Tin Chlorides	A	A	A	B	A	B	A	A	B	B
Sulfur Dioxide	A	-	-	-	A	A	A	-	C	Tin Crystals	A	A	A	B	A	B	A	A	B	B
Sulfur Dioxide 1% @ 100 F	A	X	B	B	A	B	A	A	-	Tin Dichloride	A	A	A	B	A	B	A	A	B	B
Sutor Dioxide - Liquid	B	B	X	A	A	A	A	A	B	Tin Protochloride	A	A	A	B	A	B	A	A	B	B
Sulfur Hexafluoride	C	C	X	X	A	X	A	A	C	Tin Salts	A	A	A	B	A	B	A	A	B	B
Sulfur Monochloride	C	C	X	X	A	X	A	A	C	Tin Tetrachloride	-	A	A	A	A	-	-	A	-	B
Sulfur Subchloride	C	C	X	C	B	C	A	A	B	Titanium Tetrachloride	X	C	X	X	X	X	A	A	-	X
Sulfur Trioxide (Dry)	B	A	A	A	A	A	A	A	B	T.N.T	A	X	X	X	B	X	C	A	-	-
Sulfurated Lime	A	B	A	A	A	A	A	A	B	Toluene	X	C	X	X	X	X	A	A	X	X
Sulfuric Acid - 10%, 9 BE	B	C	B	B	A	B	A	A	X	Toluene Diisocyanate	X	-	C	A	X	A	-	A	-	-
										Toluidine	-	X	X	X	X	-	B	A	-	-

(A) -Excellent

(B) -Good

(C) -Conditional

(X) -Not Recommended

(-) -No Data

ELASTOMER

ELASTOMER

CHEMICAL	ELASTOMER									CHEMICAL	ELASTOMER										
	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI		AU/EU	CR	NBR	*NR*/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI	AU/EU
Toluene Trichloride	-	X	-	-	-	-	-	A	-	-	Tung Oil	B	A	X	B	B	C	B	A	C	C
Toluol	X	C	X	X	X	X	A	A	X	X	Turpentine	C	A	X	X	X	X	A	A	C	-
Transformer Oil	C	B	X	X	B	X	A	A	C	X	Turpentine Substitute	X	X	X	-	-	-	-	A	-	C
Transmission Fluid Type A	C	A	X	X	C	X	A	A	B	A	Turps	X	A	X	X	X	X	A	A	X	C
Triacetin	A	A	B	A	B	A	C	A	-	X	Unslaked Lime	A	A	A	A	A	-	A	-	-	-
Triammonium Phosphate	A	A	A	A	A	A	A	A	A	-	Urea	B	B	A	A	A	-	-	A	-	B
Triaryl Phosphate	C	X	X	A	C	A	A	A	C	X	Varnish	C	B	X	X	C	X	A	A	-	X
Tributoxy Ethyl Phosphate	X	X	B	B	X	A	B	A	-	X	Vegetable Oils	B	A	X	A	B	A	A	A	A	A
Tributyl Amine	-	B	B	A	C	-	-	A	-	-	Vinegar	B	C	B	A	B	A	A	A	A	X
Tributyl Mercaptan	X	X	X	X	X	X	A	A	-	-	Vinegar Naphtha	X	X	X	B	X	B	X	A	B	X
Tributyl Phosphate	X	X	C	B	C	C	X	A	-	X	Vinegar Salts	B	B	B	A	A	A	X	A	-	-
Trichloroacetic Acid	B	C	C	C	B	B	B	A	-	X	Vinyl Acetate	-	X	X	A	C	-	X	A	-	X
Trichlorobenzene	X	X	X	X	X	-	B	A	-	X	Vinyl Benzene	-	X	X	X	X	-	A	A	-	C
Trichloroethane	X	X	X	X	X	X	A	A	C	X	Vinyl Chloride	X	X	C	B	X	C	A	A	-	-
Trichloroethylene	X	X	X	X	X	X	A	A	C	X	Vinyl Ether	-	B	X	X	B	-	X	A	-	-
Trichloromethane	X	X	X	X	X	X	A	A	C	X	Vinyl Oxide	-	B	X	X	B	-	X	A	-	-
Trichloromonofluoromethane	X	X	X	X	-	-	-	A	-	-	Vinyl Toluene	-	X	X	X	X	-	A	A	-	-
Trichloropane	X	X	-	-	-	-	A	-	-	-	Vinyl Trichloride	X	X	X	X	X	-	A	A	-	-
Trichloropropane	-	X	X	X	X	-	B	A	-	-	Vinylidene Chloride	X	X	X	C	X	B	B	A	C	X
Trichlorotrifluoroethane	X	X	X	X	-	-	-	A	-	B	Washing Soda	A	A	A	A	A	A	A	A	-	-
Tricresyl Phosphate	C	X	C	A	C	A	B	A	C	X	Water - Acid Mine	C	A	A	A	A	A	A	A	A	X
Tridecanol	-	A	A	A	A	-	B	A	-	-	Water - Distilled	C	A	A	A	A	A	A	A	C	A
Tridecanolamine	B	B	B	A	A	B	B	A	A	X	Water - Fresh	B	A	A	A	A	A	A	A	A	A
Triethyl Aluminum	X	X	X	-	-	-	B	A	-	-	Water - Sea	B	B	A	A	A	A	A	A	A	X
Triethylamine	B	A	B	C	-	-	-	A	-	-	Wax	A	A	X	X	A	X	-	A	-	A
Triethyl Borane	X	X	X	-	-	-	A	A	-	-	Whiskey	A	B	A	A	A	A	A	A	A	C
Triethylene Glycol	-	A	A	A	A	-	A	A	-	-	White Caustic	B	B	A	A	B	A	B	A	C	-
Trifluorovinyl Chloride	-	X	X	X	-	-	-	A	-	-	White Lead Sulfate	A	B	A	A	A	-	A	A	-	-
Trihydroxybenzoic Acid	C	X	A	B	B	B	A	A	-	X	White Liquor	A	A	A	-	A	A	-	A	-	X
Trihydroxyethylamine	B	B	C	A	-	-	-	A	-	-	Wines	A	A	A	A	A	A	B	A	A	X
Trimethylmethane	-	A	X	X	X	-	A	A	-	-	Wintergreen Oil	X	X	X	B	-	C	B	A	-	-
Trimethylpentane	B	A	X	X	B	X	A	A	X	B	Xylene	X	C	X	X	X	X	A	A	X	X
Triethylene Glycol	-	A	A	A	A	A	A	A	-	-	Xylol	X	C	X	X	X	X	A	A	X	-
Trinitrophenol	C	C	C	C	A	B	A	A	X	B	Zinc Acetate	C	C	A	A	A	C	A	X	X	
Trinitrotoluene	A	X	X	X	B	C	A	C	-	-	Zinc Carbonate	-	A	A	A	A	-	A	A	-	A
Trioctyl Phosphate	X	X	X	A	X	A	B	A	C	X	Zinc Chloride	B	B	B	A	A	A	A	A	A	B
Triphenyl Phosphate	-	X	X	A	C	-	C	A	-	-	Zinc Chromate	-	-	-	A	C	-	-	A	-	-
Tripolyphosphate	X	X	X	-	-	-	-	A	-	X	Zinc Sulfate	A	A	A	A	A	A	A	A	A	B
Trisodium Phosphate	A	A	A	A	A	A	A	A	A	C	Zinc Sulphate	A	A	A	A	A	A	A	A	A	B
Tritoyl Phosphate	C	X	C	A	C	A	B	A	C	X											

(A) -Excellent (B) -Good (C) -Conditional (X) -Not Recommended (-) -No Data

	CR	NBR	NR/PGR	CIIR	CSM	EPDM	FPM/FKM	AFMU	SI	AU/EU
PHYSICAL PROPERTIES										
Specific Gravity	1.23-1.25	0.98	0.92	0.92	1.11-1.28	0.86	1.4-1.95	117	1.1-1.6	1.23-1.28
Hardness, Durometer	30A-95A	30A-100A	30A-100A	30A-100A	40A-95A	30A-90A	40A-95A	510	20A-90A	62-64
Tensile Strength	500-3500	1000-3500	2500-4500	2000-3000	500-3500	500-3500	2000	3400	1500	4459-4870
Elongation %	100-800	400-600	500-700	300-800	100-700	100-700	150-450	350	10040	680-690
Compression Set %	20-60	5-20	10-30	25	35-80	20-60	20-25	-	0	-
Resilience %	50-80	-	80	30	30-70	40-75	40-70	-	10	-
Tear Resistance	Good	Good	Excellent	Good	Fair	Fair-Good	Fair	Good	Fair	Good
Abrasion Resistance	Excellent	Excellent	Excellent +	Good	Good	Good	Fair	Fair	Poor	Fair
ELECTRICAL PROPERTIES										
Vol. Res. ohm-cm	2x10	3.5x10	-	2x10	1X10	2x10	2x10	-	1x10	-
Dielectric Str, v/mil	400.600	250	400-600	600-800	650	500-1000	500	430	400-700	510
THERMAL PROPERTIES										
Service Temp F										
Max.	230	240	180	250	250	300	400	450	500	320
Min.	-65	-65	-65	-65	-65	-40	-40	-120	-160	32
SPECIFIC RESISTANCE										
Oxidation	Excellent	Good	Good	Excellent	Excellent	Excellent	Excellent +	Excellent +	Excellent	Excellent
Ozone	Good	Fair	Poor	Excellent	Excellent	Excellent +	Excellent	Excellent +	Excellent +	Excellent +
Sunlight Aging	Very Good	Poor	Poor	Very Good	Excellent +	Excellent +	Excellent +	Excellent +	Excellent +	Fair
Heat Aging	Excellent	Good	Good	Excellent	Excellent	Excellent	Excellent +	Excellent +	Excellent +	Excellent
Flame	Excellent +	Poor	Poor	Fair	Excellent +	Poor	Excellent +	Excellent +	Poor	Poor
Oil	Good	Very Good	Poor	Poor	Good	Poor	Excellent	Excellent +	Fair	Poor
Fuel	Fair	Good	Poor	Poor	Fair	Poor	Excellent	Excellent +	Poor	Poor
Ketone/Esters	Poor	Fair	Good	Excellent	Fair	Excellent	Poor	Excellent +	Fair	Fair
Aliphatic Hydrocarbons	Good	Excellent	Poor	Poor	Fair	Poor	Excellent	Excellent +	Poor	Poor
Aromatic Hydrocarbons	Fair	Good	Poor	Fair	Fair	Fair	Excellent	Excellent +	Poor	Poor
Weather	Excellent	Good	Fair	Excellent	Excellent	Excellent	Excellent	Excellent +	Excellent	Fair
Water	Good	Good	Excellent	Excellent	Very Good	Very Good	Very Good	Excellent +	Good	Excellent