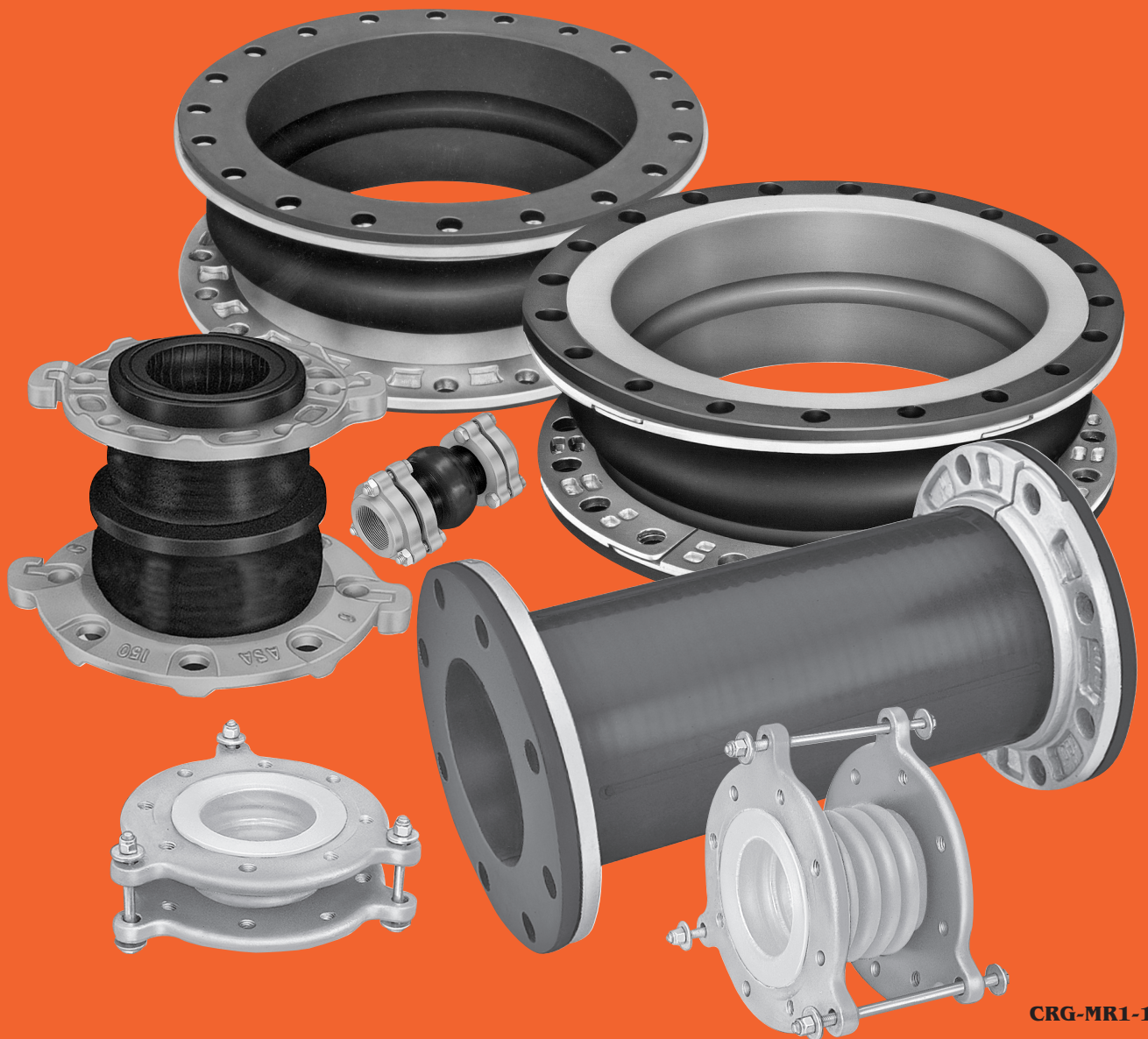


MERCER

INVINCIBLE

Chemical Resistance Guide



CRG-MR1-1

MERCER Elastomer Chemical Resistance Guide

This guide is designed as an aid in selecting common elastomers used to conduct some of the many types of materials found in industry.

Improper selection of tube and/or cover materials can result in decreased service life, or complete failure of the expansion joint. For example, Natural Rubber is an excellent tube material for water lines. If however, the water contains concentrations of non-degradable oil, the rubber will swell and deteriorate. In this instance a Nitrile tube should be used. If this expansion joint were installed outdoors, the cover elastomer would be subject to ozone and weathering which would rapidly age harden both Natural Rubber and Nitrile. These cover materials could become brittle, crack and crumble. EPDM would be the proper choice for an outdoor cover. While Freon is chemically compatible with some elastomers, we never build Freon connectors because of mechanical problems.

In selecting a proper elastomer, total system environment must be considered. While theoretically safe, some applications may be inadvisable because of worker safety or extensive property damage.

The information in this selection guide was derived from published literature of Polymer suppliers, and in some cases the considered opinions of experienced compounders, but not necessarily the experience of the Mercer Rubber Company. Therefore, this guide is intended only as an aid in selecting proper elastomers. We encourage our customers to test samples of a selected elastomer for compatibility with the actual service, and we would be pleased to provide small sample test pieces on request.

We feel this guide is an excellent source of general information, but Mercer Rubber Company can not be held responsible should your specific experience disagree with these generalizations.

Ac thru Am				Am thru Ar			
Acetal – Ammonia, Anhydrous				Ammonia, Liquid – Arsenic Trichloride			
	Natural Rubber Buna-S (SBR)	Butyl	Nitrile (Hycar, Buna-N)	Natural Rubber Buna-S (SBR)	Butyl	Nitrile (Hycar, Buna-N)	
	EPDM	Viton	Teflon	EPDM	Viton	Teflon	
Acetal	C	C	G	D	C	C	G
Acetaldehyde	C	D	E	D	C	C	E
Acetamide	C	C	E	G	G	G	E
Acetate Solvents	C	D	C	D	D	D	C
Acetic Acid, 10%	G	G	G	G	C	C	G
Acetic Acid, 30%	D	D	G	D	C	G	E
Acetic Acid, 50%	D	D	G	C	C	D	E
Acetic Acid, Glacial	D	D	G	D	C	D	G
Acetic Anhydride	D	D	G	D	D	D	G
Acetic Ester (Ethyl Acetate)	D	D	G	D	D	D	G
Acetic Ether (Ethyl Acetate)	D	D	G	D	D	C	G
Acetic Oxide (Acetic Anhydride)	D	D	G	D	D	D	G
Acetone	G	C	E	D	C	C	E
Acetophenone	C	D	E	D	D	D	E
Acetyl Acetone	G	D	G	D	D	D	G
Acetyl Chloride	D	D	C	D	D	D	C
Acetylene	D	D	E	E	G	G	E
Acrylonitrile	C	D	D	D	C	C	D
Air	E	E	E	E	E	E	E
Alcohols, Aliphatic	E	G	E	E	E	E	C
Alcohols, Aromatic	C	D	D	C	C	D	D
Alk Tri (Trichloroethylene)	D	D	D	D	D	D	D
Allyl Alcohol	E	G	E	E	E	E	E
Allyl Bromide	D	D	D	D	D	D	G
Allyl Chloride	D	D	D	D	D	D	D
Alum (Aluminum Potassium Sulfate)	E	E	E	E	E	E	E
Aluminium Acetate	C	C	E	C	C	G	E
Aluminum Chloride	E	E	E	E	E	E	E
Aluminum Fluoride	E	E	E	E	E	E	E
Aluminum Hydroxide	E	E	E	E	E	E	E
Aluminum Nitrate	E	E	E	E	E	E	E
Aluminum Phosphate	E	E	E	E	E	E	E
Aluminum Sulfate	E	E	E	E	E	E	E
Ammonia, Anhydrous	E	C	E	E	E	G	E
LEGEND							
E Excellent. Suitable for continuous service.							
G Good. Generally suitable for continuous or intermittent service.							
C Conditional. Not recommended for continuous service, but generally suited for intermittent service.							
D DO NOT USE.							
– No experience.							
				Ammonia, Liquid			
				Ammonia, in Water			
				Ammonia Gas (Cold)			
				Ammonia Gas (150°F)			
				Ammonium Carbonate			
				Ammonium Chloride			
				Ammonium Hydroxide			
				Ammonium Metaphosphate			
				Ammonium Nitrate			
				Ammonium Nitrite			
				Ammonium Persulfate			
				Ammonium Phosphate			
				Ammonium Sulfate			
				Ammonium Sulfide			
				Ammonium Sulfite			
				Ammonium Thiocyanate			
				Ammonium Thiosulfate			
				Amyl Acetate			
				Amyl Acetone			
				Amyl Alcohol			
				Amylamine			
				Amyl Borate			
				Amyl Chloride			
				Amyl Chloronapthalene			
				Amyl Napthalene			
				Amyl Oleate			
				Amyl Phenol			
				Anethole			
				Aniline			
				Aniline Dyes			
				Aniline Hydrochloride			
				Animal Fats			
				Animal Grease			
				Animal Oils			
				Ansul Ether			
				Antifreeze (Ethylene Glycol)			
				Antimony Chloride			
				Antimony Trichloride			
				Antimony Pentachloride			
				Aqua Regia			
				Aromatic Hydrocarbons			
				Arquad			
				Arsenic Acid			
				Arsenic Chloride			
				Arsenic Trichloride			

LEGEND

- E Excellent.** Suitable for continuous service.
- G Good.** Generally suitable for continuous or intermittent service.
- C Conditional.** Not recommended for continuous service, but generally suited for intermittent service.
- D DO NOT USE.**
- No experience.**

As thru Ca				Ca thru Cr			
Asphalt – Calcium Fluorophosphate				Calcium Hydroxide – Creosote (Wood)			
	Natural Rubber Buna-S (SBR)	Butyl	Nitrile (Hycar, Buna-N)		Natural Rubber Buna-S (SBR)	Butyl	Nitrile (Hycar, Buna-N)
	EPDM	Viton	Teflon		EPDM	Viton	Teflon
Asphalt	D D D	E G D	D E G	Calcium Hydroxide	E G E	G E G	E C E
ASTM #1 Oil	D D D	E G D	D E E	Calcium Hypochlorite	D D G	D D C	G E –
ASTM #2 Oil	D D D	E G C	D E E	Calcium Nitrate	E E E	E E E	E E E
ASTM #3 Oil	D D D	E G C	D E E	Calcium Sulfate	E E E	E E E	E E E
Aviation Gasoline	D D D	E C D	D E E	Calcium Sulfide	E E E	E E E	E E E
				Calcium Sulfite	E E E	E E E	E E E
Bardol B	D – D	D D –	– – C	Caliche Liquor	E E E	E E E	E E E
Barium Carbonate	E E E	E E E	E E E	(Crude Sodium Nitrate)			
Barium Chloride	E E E	E E E	E E E	Cane Sugar Liquors (Non F.D.A.)	E E E	E E E	E E E
Barium Hydroxide	E E E	E E E	E E E	Carbitol	D D E	D E G	G G E
Barium Sulfate	E E E	E E E	E E E	Carbitol Acetate	D D G	D D D	G D E
Barium Sulfide	E E E	E E E	E E E	Carbolic Acid (Phenol)	D D G	C C C	G E E
Beet Sugar Liquors	E E E	E E E	E E E	Carbon Bisulfide			
Benzaldehyde	D D G	D D D	G D E	(See Carbon Disulfide)			
Benzene (Benzol)	D D D	C C D	D E E	Carbon Dioxide	E E E	E E E	E E E
Benzene Sulfonic Acid	D D D	G E E	C E E	Carbon Disulfide	D D D	D D D	D E E
Benzene Solvent (Ligroin)	D D D	E E C	D E E	Carbonic Acid	E E E	E E E	E E E
Benzoic Acid	D D G	D G G	G E E	Carbon Monoxide	E E E	E E E	E E E
Benzoic Aldehyde	D D D	D D D	D D E	Carbon Tetrachloride	D D D	C D D	D E –
Benzotrichloride	D D D	D D D	D G G	Carbon Tetrafluoride	D D D	C D D	D E –
Benzoyl Chloride	D D D	D D D	D G G	Castor Oil	C D G	E G C	G E E
Benzyl Acetate	D D G	D D G	G D E	Caustic Potash	E G E	E G E	E C E
Benzyl Alcohol	G G G	D G G	G E E	(Potassium Hydroxide)			
Benzyl Benzoate	C – E	D D –	– – E	Caustic Soda (Sodium Hydroxide)	E G E	E E E	E C E
Benzyl Chloride	D D C	D D D	D E E	Cellosolve	D D G	G E G	G C E
Bichromate of Soda	D D E	D G G	C E E	Cellulose Acetate	C D G	D C C	G D –
(Sodium Dichromate)				Cellulube	C D G	D D D	E C E
Bismuth Carbonate	E – E	E E E	– – E	Chiina Wood Oil (Tung Oil)	D D G	E G G	G E E
Black Sulfate Liquor	G G E	G E G	E E E	Chlorine Dioxide	D D D	D D C	D E –
Blast Furnace Gas	D D C	C G G	C E E	Chlorine Gas (Dry)	C C C	C D G	C G –
Bleach Solutions	D D G	D D C	G G G	Chlorine, Water Solns.	C D C	D D G	C E E
Borax	G G E	G E E	E E E	Chloroacetic Acid	G D C	D D D	C C E
Bordeaux Mixture	G G E	E E E	E E E	Chloroacetone	D D G	D D D	C D E
Boric Acid	E E E	E E E	E E E	Chlorobenzene	D D D	D D D	D E –
Brandy	E – E	E E E	– – –	Chlorobromomethane	D – D	D D D	– – E
Brine	E E E	E E E	E E E	Chlorobutane	D D D	D D D	D E –
Bromine	D D D	D D C	D C E	Chlorobutadiene	D D D	D D D	D E –
Bromine Water	D D G	C G E	G E E	Chloroform	D D D	D D D	D E –
Bromobenzene	D D D	D D D	D G –	o-Chloronaphthalene	D – D	D D –	– – E
Bunker Oil	D D D	E G D	D E E	Chlorinated Hydrocarbons	D D D	D D D	D E –
Butane	Refer to Supplier			Chloropentane	D D D	D C D	D E E
Butanol (Butyl Alcohol)	E E E	E E E	E E E	Chlorophenol	D D D	D D D	D G G
Butadiene	D D D	D C G	D E E	Chloropropanone	D D C	D D D	C D E
I-Butene (AliphaticHydrocarbon 95°F)	D – D	– E –	– – E	Chlorosulfonic Acid	D D D	D D C	D D G
I-Butene, 2-Ethyl (95°F)	D – D	– G –	– – E	Chlorothene (Trichloroethane)	D D D	D D D	D E G
Butter (Non F.D.A.)	C C G	E E E	G E E	Chlorotoluene	D D D	D D D	D E G
Butyl Acetate	D D G	D D D	C D E	Chromic Acid	D D D	D D E	C C E
n-Butyl Acetate	C – –	D D D	– – D	Citric Acid	E E E	G G E	E E E
Butyl Acetate Recinoleate	C – –	E D –	– – C	Coal Oil	D D D	E G D	D E E
Butyl Acrylate	D D D	D D D	D D E	Coal Tar	D D D	E G G	G E E
Butylamine	G C C	C D C	C D E	Coal Tar Naptha	D D D	C C D	D E E
Butyl Benzene	D D D	D D D	D E E	Cobalt Chloride	E E E	E E E	E E E
Butyl Bromide	D D D	D D D	D G –	Coconut Oil	D D G	E G G	E E E
Butyl Butyrate	D D C	D D D	G C –	Cod Liver Oil	D D E	E G G	E E E
Butyl Carbitol	D D E	G G G	E E E	Coke Oven Gas	D D C	D D G	D E E
Butyl Cellosolve	D D E	G G G	E D E	Copper Arsenate	E E E	E E E	E E E
Butyl Chloride	D D C	D D D	D E G	Copper Chloride	E E E	E E E	E E E
Butyl Ether	D D C	G G G	C D E	Copper Cyanide	E E E	E E E	E E E
Butyl Ethyl Acetaldehyde	D D C	D D D	D D E	Copper Nitrate	E E E	E E E	E E E
Butyl Ethyl Ether	D D C	D D G	C C E	Copper Nitrite	E E E	E E E	E E E
Butyl Oleate	D D G	D D D	G E E	Copper Sulfate	C E E	E E E	E E E
Butyl Phthalate	D D C	D D D	C C E	Copper Sulfide	C E E	E E E	E E E
Butyl Stearate	D D C	G D D	C E E	Corn Oil	D D G	E G G	G E E
Butyraldehyde	C D D	D D D	D D E	Cottonseed Oil	D D E	E G E	E E E
Butyric Acid	C D C	C C G	C C E	Creosote (Wood)	D D D	G C C	D E E
Butyric Anhydride	C D C	C D G	C C E				
Cadmium Cyanide	– – E	– E –	– – E	The Comparative Cost Index provides approximate cost comparisons between natural rubber and other materials for expansion joints of average diameter between 11/2" and 96" when the tube and cover are of the same elastomer.			
Calcium Acetate	C D E	D D D	E D E	1.0 Natural Rubber Buna-S (SBR)	1.15 Nitrile EPDM	1.2 Hypalon	
Calcium Bisulfate	E E E	E E E	E E E	1.1 Butyl		3.8 Viton	
Calcium Bisulfite	E E E	E E E	E E E	Neoprene		Teflon—See Price List	
Calcium Carbonate	E E E	E E E	E E E				
Calcium Chlorate	E – E	E E E	– – E				
Calcium Chloride	E E E	E E E	E E E				
Calcium Fluorophosphate	– – E	– E –	– – E				

Cr thru Di							Di thru Et						
Creosote (Coal Tar) – Diisobutyl Ketone							Diisodecyl Adipate – Ethyl Methyl Ketone						
	Natural Rubber	Buna-S (SBR)	Butyl	Nitrile (Hycar)	Neoprene	Hypalon		Natural Rubber	Buna-S (SBR)	Butyl	Nitrile (Hycar)	Neoprene	Hypalon
	EPDM	Viton	Teflon					EPDM	Viton	Teflon			
Creosote (Coal Tar)	D	D	D	G	C	C	D	E	E				
Cresols	D	D	D	C	C	C	D	E	E				
Cresylic Acid	D	D	D	C	C	C	D	E	E				
Crotonaldehyde	D	D	E	D	D	D	C	D	E				
Crude Oil	D	D	D	E	G	D	D	E	E				
Cryolite 10%(Alum./Sodium Flouride)	–	–	E	G	E	–	–	–	E				
Cumene	D	D	D	C	C	D	D	E	E				
Cupric Carbonate	C	C	E	G	G	G	E	E	E				
Cupric Chloride	C	C	E	E	G	E	E	E	E				
Cupric Nitrate	C	C	E	E	G	E	E	E	E				
Cupric Nitrite	C	C	E	E	G	E	E	E	E				
Cupric Sulfate	C	G	E	E	G	G	E	E	E				
Cyclohexane	D	D	D	G	D	D	D	E	E				
Cyclohexanone	D	D	D	D	D	D	D	C	E				
Cyclohexanol	D	D	D	G	G	D	D	G	E				
Cyclopentane	D	D	D	C	D	D	D	E	E				
p-Cymene	D	D	D	C	D	D	D	E	E				
DDT In Kerosene	D	D	D	E	G	C	D	E	E				
Decaline	D	D	D	D	D	D	D	E	E				
Deionized Water*	E	E	E	E	E	E	E	E	E				
Decane	D	D	D	G	D	D	D	E	E				
Detergent Solutions	G	G	E	E	E	E	E	E	E				
Diacetone Alcohol	D	D	E	D	D	G	G	D	E				
Diamylamine	G	C	E	G	E	C	C	G	E				
Dibenzyl Ether	D	D	D	D	D	D	D	C	E				
Dibenzyl Sebacate	C	D	G	D	D	C	G	E					
Dibromobenzene	D	D	D	D	D	D	D	E	G				
Dibutylamine	G	C	C	G	E	C	G	D	E				
Dibutylether	D	D	D	D	D	D	G	C	E				
Dibutylphthalate	D	D	G	D	D	D	E	D	E				
Dibutyl Sebacate	D	D	G	D	D	D	D	G	D				
Dicalcium Phosphate	E	E	E	E	E	E	E	E	E				
Dichloroacetic Acid	D	D	C	D	D	D	C	C	E				
P-Dichlorobenzene	D	D	D	D	D	D	D	E	E				
Dichlorobutane	D	D	D	D	D	D	D	E	E				
Dichloroisopropyl Ether	D	D	C	D	D	D	C	C	E				
Dicyclohexylamine	D	D	D	C	D	D	C	C	G				
Dichlorodifluoromethane (Freon 12)	D	D	D	G	D	D	D	G	E				
Dichloroethane	D	D	D	D	D	D	D	E	E				
Dichloroethylene	D	D	D	D	D	D	D	E	E				
Dichloroethyl Ether	D	D	D	D	D	D	D	C	E				
Dichlorohexane	D	D	D	D	D	D	D	E	E				
Dichloromethane	D	D	D	D	D	D	D	E	E				
Dichloropentane	D	D	D	D	D	D	D	E	E				
Dieldrin In Xylene	D	D	D	D	D	D	D	E	E				
Dieldrin In Xylene and Water Spray	D	D	D	G	G	D	D	E	E				
Diesel Oil	D	D	D	E	G	C	D	E	E				
Diethanolamine	G	C	G	G	G	C	C	G	E				
Diethylamine	G	C	G	G	G	C	C	D	E				
Diethyl Benzene	D	D	D	D	D	D	D	E	E				
Diethyl Ether	D	D	D	G	C	C	C	D	E				
Diethylene Dioxide	D	D	G	D	D	D	G	D	E				
Diethylene Glycol	E	E	E	E	E	E	E	E	E				
Diethylenetriamine	G	G	E	G	G	C	E	C	E				
Diethyl Oxalate	E	E	E	D	D	D	E	C	E				
Diethyl Phthalate	D	D	E	D	D	D	G	C	E				
Diethyl Sebacate	D	D	E	D	D	D	G	C	E				
Diethyl Sulfate	D	D	G	D	D	D	G	D	E				
Diethyl Triamine	G	C	E	G	G	C	G	C	E				
Dihydroxyethyl Amine	G	C	E	G	G	C	G	C	E				
Dihydroxyethyl Ether	E	E	E	E	G	E	G	E	E				
Diisobutylene	D	D	D	E	G	D	D	E	E				
Diisobutyl Ketone	D	D	G	D	D	D	G	D	E				
LEGEND													
E Excellent. Suitable for continuous service.													
G Good. Generally suitable for continuous or intermittent service.													
C Conditional. Not recommended for continuous service, but generally suited for intermittent service.													
D DO NOT USE.													
– No experience.													
Diisodecyl Adipate	D	D	E	D	D	C	E	C	E				
Diisodecyl Phthalate	D	D	E	D	D	C	E	C	E				
Diisooctyl Adipate	D	D	E	D	D	C	E	C	E				
Diisooctyl Phthalate	D	D	E	D	D	C	E	C	E				
Diisopropanol Amine	G	C	E	G	G	C	E	C	E				
Diisopropyl Benzene	D	D	D	C	D	D	D	E	E				
Diisopropyl Ether	D	D	D	G	C	D	D	G	E				
Diisopropyl Ketone	D	D	E	D	D	D	D	E	E				
Dilauryl Ether	D	D	D	D	D	D	D	C	E				
Dimethylamine	G	C	E	G	G	C	E	C	E				
Dimethyl Benzene	D	D	D	D	D	D	D	E	E				
Dimethylaniline	D	D	D	D	D	D	C	D	G				
Dimethylformamide (DMF)	C	C	C	D	C	C	C	D	E				
Dimethyl Ketone (Acetone)	G	C	E	D	C	C	E	D	E				
Dimethyl Phthalate	D	D	E	D	D	D	G	C	E				
Dimethyl Sulfate	D	D	D	D	D	D	D	D	E				
Dimethyl Sulfide	D	D	D	D	D	D	D	C	G				
Dinitrobenzene	D	D	C	D	C	D	C	E	E				
Dinitrotoluene	D	D	D	D	D	D	D	C	E				
Diocetyl Adipate (DOA)	D	D	G	D	D	D	G	C	E				
Diocetylamine	G	G	E	G	G	C	G	C	E				
Diocetyl Phthalate (DOP)	D	D	G	D	D	D	G	E	E				
Diocetyl Sebacate (DOS)	D	D	G	D	D	D	G	G	E				
Dioxane	D	D	G	D	D	D	G	D	E				
Dioxolane	D	D	C	D	D	D	G	C	E				
Dipentene (Limonene)	D	D	D	C	D	D	D	E	E				
Diphenyl (Biphenyl)	D	D	D	D	D	D	D	E	E				
Dipropyl Ketone	D	D	G	D	D	D	G	D	E				
Disodium Phosphate	E	E	E	E	E	E	E	E	E				
Divinyl Benzene	D	D	D	D	D	D	D	E	E				
D.M.P. (Dimethyl Phenols)	D	D	D	D	D	D	D	D	–				
Dodecyl Benzene	D	D	D	D	D	D	D	E	E				
Diphenyl Oxide (Phenyl Ether)	D	D	D	D	D	C	D	E	E				
Dipropylamine	G	G	E	G	G	C	E	C	E				
Dipropylene Glycol	E	E	E	E	E	E	E	E	E				
Dodecyl Toluene	D	D	D	D	D	D	D	E	E				
Dowfume W 40, 100%	D	D	D	D	C	C	C	C	–				
Dow-Per (Perchloroethylene)	D	D	D	C	D	D	D	E	E				
Dowtherm Oil, A and E	D	D	D	D	D	C	D	E	E				
Dowtherm S.R.I.	E	E	E	E	E	E	E	E	E				
Dry Cleaning Fluids	D	D	D	C	D	D	D	E	G				
Epichlorohydrin	D	D	G	D	D	C	G	D	G				
Ethanol (Ethyl Alcohol)	E	E	E	E	E	E	E	E	E				
Ethanolamine	G	C	G	G	G	C	G	D	E				
Ethers	D	D	C	D	D	C	D	C	E				
Ethyl Acetate	D	D	G	D	D	C	G	D	E				
Ethyl Acetoacetate	D	D	G	D	D	D	G	D	E				
Ethyl Acrylate	D	D	C	D	D	D	D	D	G				
Ethyl Benzene	D	D	D	C	D	D	D	E	E				
Ethyl Benzoate	D	D	G	G	C	C	G	C	E				
Ethyl Butyl Alcohol	E	E	E	E	E	E	E	G	E				
Ethyl Butyl Amine	G	C	E	G	G	C	G	G	E				
Ethyl Butyl Ketone	D	D	G	D	D	D	G	D	E				
Ethyl Butyrate	C	–	–	D	D	D	–	–	C				
Ethyl Cellulose	G	G	G	G	G	C	G	D	E				
Ethyl Chloride	C	C	D	C	C	D	D	E	E				
Ethyl Dichloride	D	D	D	D	D	D	D	G	G				
Ethylene	D	D	D	E	G	C	D	E	E				
Ethylene Bromide	D	D	D	D	D	D	D	E	G				
Ethylene Chloride	D	D	D	D	D	D	D	E	G				
Ethylene Chlorohydrin	C	–	E	D	E	–	–	–	C				
Ethylene Diamine	G	C	E	G	E	C	E	D	E				
Ethylene Dibromide	D	D	D	D	D	D	D	G	G				
Ethylene Dichloride	D	D	D	D	D	D	D	G	G				
Ethylene Glycol	E	E	E	E	E	E	E	E	E				
Ethylene Oxide	D	D	C	D	D	D	C	D	–				
Ethylene Trichloride (Trichloroethylene)	D	D	D	C	D	D	D	E	G				
Ethyl Ether	D	D	D	C	D	D	D	D	E				
Ethyl Formate	D	D	G	D	D	D	C	D	E				
Ethyl Hexanol	E	E	E	E	E	E	E	G	E				
Ethyl Mercaptan	D	–	D	D	D	–	–	–	C				
Ethyl Methyl Ketone	C	D	G	D	D	D	G	D	E				

Et thru Gr				Ha thru Is			
Ethyl Oxalate – Green Sulfate Liquor				Halowas Oil – Isocyanates			
	Natural Rubber	Buna-S (SBR)	Butyl	Nitrile (Hycar, Buna-N)	Neoprene	Hypalon	EPDM
							Viton
							Teflon
Ethyl Oxalate	E E E	D D D	G C E				
Ethyl Pentachlorobenzene	D – D	C D –	– – E				
Ethyl Phthalate	D D E	D D D	G C E				
Ethyl Propyl Ether	D D D	D D D	D C E				
Ethyl Propyl Ketone	D D G	D D D	G D E				
Ethyl Silicate	C C E	E E E	E E E				
Ethyl Sulfate	D D G	D D D	G D E				
EX TRI (Trichloroethylene)	D D D	C D D	D E G				
Fatty Acids	D D D	G G G	C E E				
Ferric Bromide	E E E	E E E	E E E				
Ferric Chloride	E E E	E E E	E E E				
Ferric Nitrate	E E E	E E E	E E E				
Ferric Sulfate	E E E	E E E	E E E				
Ferrous Acetate	D D E	D D D	G D E				
Ferrous Ammonium Sulfate	E E E	E E E	E E E				
Ferrous Chloride	E E E	E E E	E E E				
Ferrous Hydroxide	G C E	G E G	E C E				
Ferrous Sulfate	E E E	E E E	E E E				
Fish Oil	D D E	E E E	E E E				
Fluorobenzene	D – D	D D –	– – E				
Fluoroboric Acid	E C E	E G E	E C E				
Fluorine (Liquid)	D D D	D D D	D D –				
Fluosilicic Acid	G G E	G G E	G E E				
Formaldehyde (Formalin)	C C E	G G G	G E E				
Formamide	E E E	E E E	E D E				
Formic Acid	G G E	C C C	C D G				
Freon 11*	D D D	E G E	D E E				
Freon 12*	D D D	G C D	C G G				
Freon 13*	E E E	E E E	E E E				
Freon 21*	D D D	D G D	D D E				
Freon 22*	D D E	D E D	G D E				
Freon 31*	G G E	D E G	E D E				
Freon 32*	E E E	E E E	E C E				
Freon 112*	D D D	G G G	D E E				
Freon 113*	C G D	E E E	D G E				
Freon 114*	E E E	E E E	E G E				
Freon 115*	E E E	E E E	E G E				
Freon 142b*	E E E	E E E	E D E				
Freon 152a*	E E E	E E C	E D E				
Freon 218*	E E E	E E E	E E E				
Freon C316*	E E E	E E E	E E E				
Freon C318*	E E E	E E E	E E E				
Freon 13B1*	E E E	E E E	E E E				
Freon 114B2*	D C D	G E E	D G E				
Freon 502*	E E E	G E E	E G E				
Freon TF*	C G E	E E E	D E E				
Freon T-WD602*	C G E	E G G	G E E				
Freon TMC*	G C G	G G G	G E E				
Freon T-P35*	E E E	E E E	E E E				
Freon TA*	E E E	E E E	E C E				
Freon TC*	D G E	E E E	G E E				
Freon MF*	D G D	E C G	D E E				
Freon BF*	D D D	G G G	D E E				
Fuel Oil	D D D	E G C	D E E				
Fuel, ASTMA	D D D	E E C	D E E				
Fuel, ASTMB	D D D	E G C	D E E				
Fuel, ASTMC	D D D	G C D	D E G				
Fumaric Acid	E E D	E G G	D E E				
Furan	D D C	D D D	C D E				
Furfural	D D G	D C G	G D E				
Furfuryl Alcohol	D D C	D C C	C D E				
Gallic Acid	E E G	G G G	G G E				
Gasoline, Reg	D D D	E E C	D E E				
Gasoline, HiTest	D D D	E G D	D E E				
Gasoline, Lead Free	D D D	G G D	D E E				
Gelatin	E E E	E E E	E E E				
Gluconic Acid	D D C	C C G	C E E				
Glucose	E E E	E E E	E E E				
Glue	E E E	E E E	E E E				
Glycerine (Glycerol)	E E E	E E E	E E E				
Glycols	E E E	E E E	E E E				
Grease	D D D	E G C	D E E				
Green Sulfate Liquor	E E E	E G E	E G E				
Halowax Oil	D D D	D D D	D E E				
Heptachlor In Petroleum Solvents	D D D	G G D	D E E				
Heptachlor In Petroleum Solvents, Water Spray	D D D	G G D	D E E				
Heptanal (Heptaldehyde)	D D D	D D D	G D E				
Heptane	D D D	E E G	D E E				
Heptane Carboxylic Acid	D D C	C G G	C E E				
Hexaldehyde	D D G	D G C	G D E				
Hexane	D D D	E E C	D E E				
Hexene	D D D	G G C	D E E				
Hexanol (Hexyl Alcohol)	E E E	E E E	E E E				
Hexylamine	G C G	G G C	G D E				
Hexylene	D D D	E G D	C E G				
Hexylene Glycol	E E E	E E E	E E E				
Hexyl Methyl Ketone	D D G	D D D	G D E				
Hi-Tri (Trichloroethylene)	D D C	D D D	D E G				
Hydraulic Fluid (Petroleum)	D D D	E G G	D E E				
Hydraulic Fluid (Phosphate Ester Base)	D D E	D D D	E D E				
Hydraulic Fluid (Poly Alkylene Glycol Base)	G G E	E E E	E E E				
Hydrazine	– – –	– – –	E D –				
Hydrobromic Acid	E D E	D C E	G E E				
Hydrochloric Acid, 37%	E G E	C C E	G E E				
Hydrochloric Acid, 50%	E C G	D D E	C E E				
Hydrochloric Acid, 100%	G C C	D D G	C C E				
Hydrocyanic Acid	G C E	G C E	G G E				
Hydrofluoric Acid	G D G	D C E	G G E				
Hydrofluosilicic Acid	E D E	D C E	G G E				
Hydrogen Gas	G G E	E E E	G E E				
Hydrogen Peroxide, 3%	E G E	G C E	G E E				
Hydrogen Peroxide, 10%	D D C	D C C	C E E				
Hydrogen Peroxide, 30%	D D D	D D D	C E E				
Hydrogen Peroxide, 90%	D D D	D D D	C G G				
Hydrogen Sulfide	D D E	D E G	E E E				
Hydroquinone	G G G	D D C	G D E				
Hydrochlorous Acid	G G G	D G E	G E E				
Ink Oil (Linseed Oil Base)	D D G	G G G	G E E				
Insulating Oil	D D D	E G D	D E E				
Iodine	D D D	D D C	D C E				
Iron Acetate	D D E	D D D	G D E				
Iron Hydroxide	C C E	G E G	G C E				
Iron Salts	E E E	E E E	E E E				
Iron Sulfate	E E E	E E E	E E E				
Iron Sulfide	E E E	E E E	E E E				
Isoamyl Acetate	D D E	D D D	G D E				
Isoamyl Alcohol	E E E	E E E	E E E				
Isoamyl Bromide	D D D	D D D	D G G				
Isoamyl Butyrate	D D C	D D D	C D G				
Isoamyl Chloride	D D C	D D D	D G G				
Isoamyl Ether	D D D	D D D	D D E				
Isoamyl Phthalate	D D E	D D D	G C E				
Isobutane	D D D	E E D	D E E				
Isobutanol (Isobutyl Alcohol)	E E E	E E E	E E E				
Isobutyl Acetate	D D E	D D D	G D E				
Isobutyl Aldehyde	C D G	D D D	G D E				
Isobutyl Amine	G C G	D D C	G D E				
Isobutyl Bromide	D D D	D D D	D G G				
Isobutyl n-Butyrate	– – –	D – –	– C				
Isobutyl Carbinol	E E E	E G E	E G E				
Isobutyl Chloride	D D D	D D D	D G G				
Isobutylene	D D D	C C D	D E E				
Isobutyl Ether	D D D	D D D	D D E				
Isocyanates	C D G	D D C	G C G				

The Comparative Cost Index provides approximate cost comparisons between natural rubber and other materials for expansion joints of average diameter between 11/2" and 96" when the tube and cover are of the same elastomer.

1.0 Natural Rubber Buna-S (SBR)	1.15 Nitrile Butyl EPDM	1.2 Hypalon 3.8 Viton
1.1 Neoprene		Teflon—See Price List

*Reference for Freon Seals Only: Mercer will not manufacture any type of rubber hose or expansion joint for Freon service.

Is thru Me		Natural Rubber Buna-S (SBR) Butyl Nitrile (Hycar, Buna-N) Neoprene Hypalon EPDM Vitron Teflon					
Isododecane – Methacrylic Acid							
Isododecane	D – –	E E E	– – E				
Isooctane	D D D	E E E	D E E				
Isopentane	D D D	E E D	D E G				
Isopropyl Amine	G C E	G E C	G D E				
Isopropyl Acetate	D D E	D D C	G D E				
Isopropyl Alcohol (Iso–propanol)	E E E	E E E	G G G				
Isopropyl Amine	G D G	C E C	G D E				
Isopropyl Benzene	D D D	D D D	D E E				
Isopropyl Chloride	D D D	D D D	D G G				
Isopropyl Ether	D D D	C D C	D D E				
Isopropyl Toluene	D D D	D D D	D E E				
Jet Fuels (JP 1 – JP 6)	D D D	E G C	D E E				
Kerosene	D D D	E G C	D E E				
Ketones	G G G	D D D	G D E				
Lactic Acid	G G G	E E E	G E E				
Lacquers	D D D	D D D	D D E				
Lacquer Solvents	D D D	D D D	D D E				
Lard	D D D	E G D	C E E				
Lauryl Alcohol	E E E	E E E	E G E				
Lead Acetate	D D E	C C D	G C E				
Lead Nitrate	E E E	E E E	E E E				
Lead Sulfamate	G G E	G E G	E E E				
Lead Sulfate	E E E	E E E	E E E				
Ligroin	D D D	E E D	D E E				
Lime Water	D D E	C E E	E E E				
Lime–Sulphur	G – C	E E G	– – E				
Linseed Oil	D D E	E G G	G E E				
Lindol (Tricresyl Phosphate)	D D E	D D D	E E E				
Linoleic Acid	– – –	G D –	– – E				
Liquid Soap	E E E	E E E	E E E				
Liquified Petroleum Gas	D D D	E G D	D E E				
Lubricating Oils	D D D	E G C	D E E				
Lye (Sodium Hydroxide)	E G E	G E E	E D E				
Magnesium Acetate	D D E	D D D	G D E				
Magnesium Ammonium Sulphate	– – E	– E –	– – E				
Magnesium Carbonate	E E E	E E E	E E E				
Magnesium Chloride	E E E	E E E	G E E				
Magnesium Hydrate	E G E	G E G	E G E				
Magnesium Hydroxide	E E E	E E E	G E E				
Magnesium Nitrate	E E E	E E E	E E E				
Magnesium Oxide	– – E	– E –	– – E				
Magnesium Sulfate	E E E	E E E	E E E				
Malathion 50 in Armomatic Solvents	D D D	C C D	D E E				
Malathion 50 in Aromatic Solvents, Water Spray	D D D	E E D	D E E				
Maleic Acid	D D C	D C D	C E –				
Maleic Anhydride	D D C	D C D	C E E				
Malic Acid	E G D	G C G	D E E				
Manganese Sulfate	E E E	E E E	E E E				
Manganese Sulfide	C E E	E G E	G E E				
Manganese Sulfite	C E E	E G E	G E E				
Mercuric Chloride	G G G	C C G	C E E				
Mercuric Cyanide	E – E	E G E	– – E				
Mercurous Nitrate	E – E	E E E	– – E				
Mercury	G G E	E G E	E E E				
Mesityl Oxide	D – D	D D D	– – C				
Methane	D D D	E G D	D E E				
Methyl Acetate	C D G	D D D	G D E				
Methyl Acrylate	C D G	D C D	G D E				
Methacrylic Acid	D D G	D G C	G G E				
LEGEND							
E Excellent. Suitable for continuous service.							
G Good. Generally suitable for continuous or intermittent service.							
C Conditional. Not recommended for continuous service, but generally suited for intermittent service.							
D DO NOT USE.							
– No experience.							

Me thru Ol		Natural Rubber Buna-S (SBR) Butyl Nitrile (Hycar, Buna-N) Neoprene Hypalon EPDM Vitron Teflon					
Methyl Alcohol – Oleum							
Methyl Alcohol (Methanol)	E E E	E E E	E C E				
Methyl Benzene (Toluene)	D D D	D D D	D E E				
Methyl Bromide	D D G	G D D	G E E				
Methyl Butyl Ketone	D D G	D D D	G D E				
Methyl Cellosolve	D D G	C G C	G D E				
Methyl Chloride	D D D	C D D	D G G				
Methyl Cyclohexane	D D D	D D D	D G G				
Methyl Cyclopentane	– – –	– G –	– – E				
Methylene Bromide	D D D	D D D	D G G				
Methylene Chloride	D D D	D D D	D G E				
Methyl Ethyll Ketone (MEK)	G D G	D D D	G D E				
Methyl Formate	C C G	D G C	G C G				
Methyl Hexanol	E E E	E E E	E G E				
Methyl Hexyl Ketone	D D G	D D D	G D E				
Methyl Isobutyl Carbinol	G C E	G G G	E G E				
Methyl Isobutyl Ketone (MIBK)	D D G	D D D	G D E				
Methyl Isopropyl Ketone	D D G	D D D	G D E				
Methyl Propyl Ether	D D D	D D D	D D E				
Methyl Propyl Ketone	D D G	D D D	G D E				
Methyl Methacrylate	D D D	D D G	D D G				
Methyl Salicylate	D D G	D D D	G C G				
Milk	C – C	G G E	– – E				
Mineral Oil	D D D	E G G	D E E				
Mineral Spirits	D D D	E G D	D E E				
Monobromobenzene	– – D	D – –	– – E				
Monochlorobenzene	D D D	D D D	D E E				
Monochlorodifluoromethane (Freon 22)	D D E	D E D	E D E				
Monoethanolamine	G C G	C G G	G D E				
Monomethylether	G G E	E E C	E C E				
Monovinyl Acetate	D D G	D D C	C E E				
Motor Oil	D D D	E E D	D E E				
Muriatic Acid	(See HCL 37%)						
Naphtha	D D D	E G D	D E E				
Napthalene	D D D	D D D	D E E				
Napthenic Acid	D D D	C D D	D E E				
Natural Gas	C – E	E E E	– – E				
Neatsfoot Oil	D D G	E G G	G E E				
Neu–Tri (Trichloroethylene)	D D D	C D D	D E G				
Nickel Acetate	D D E	D D D	G D E				
Nickel Ammonium Sulphate	– – E	– E –	– – E				
Nickel Chloride	E E E	E E E	E E E				
Nickel Nitrate	E E E	E E E	E E E				
Nickel Plating solution	E D G	G C G	G E E				
Nickel Sulfate	E E E	E E E	E E E				
Nicotine Bentonite	– – –	G – –	– – C				
Nicotine Sulphate	– – –	G – –	– – C				
Niter Cake	E E E	E E E	E E E				
Nitric Acid, 10%	D D G	D C G	G E E				
Nitric Acid, 20%	D D G	D D G	C E E				
Nitric Acid, 30%	D D G	D D C	C E G				
Nitric Acid, 30–70%	D D C	D D D	D C –				
Nitric Acid, Read Fuming	D D D	D D D	D D –				
Nitrobenzene	D D D	D D D	D G E				
Nitrogen Gas	E E E	E E E	E E E				
Nitroten Tetraoxie	D D D	D D D	D D –				
Nitromethane	G G G	D C C	G D E				
Nitropropane	C C E	D C C	G D E				
Nitrous Oxide	E E E	E E E	E E E				
Octadecanoic Acid	D D G	E G D	C C E				
Octane	D D D	E G D	D E G				
Octanol (Octyl Alcohol)	G G G	G E G	G E E				
n–Octrene–2	– – –	– C –	– – E				
Octyl Acetate	D D E	D D D	G D E				
Octyl Amine	C C G	C G C	G D E				
Octyl Carbinol	E E E	E E E	E G E				
Octylene Glycol	E E E	E E E	E E E				
Oil, Petroleum	D D D	E E C	D E E				
Oil, ASTM #1	D D D	E E G	D E E				
Oil, ASTM #2	D D D	E E C	D E E				
Oil, ASTM #3	D D D	E G C	D E E				
Oletic Acid	D D G	G C C	G C E				
Oleum (Fuming Sulfuric Acid)	D D D	D D D	D D –				

OI thru Pr								Pr thru So										
Olive Oil – Producer Gas	Natural Rubber Buna-S (SBR)		Butyl	Nitrile (Hycar, Buna-N)	Neoprene Hypalon	EPDM	Viton	Teflon	Propanediol–Sodium Phosphate	Natural Rubber Buna-S (SBR)		Butyl	Nitrile (Hycar, Buna-N)	Neoprene Hypalon	EPDM	Viton	Teflon	
Olive Oil (Non F.D.A.)	D	D	G	E	G	G	E	E	Propanediol	E	E	E	E	G	E	E	E	E
Orthodichlorobenzene	D	D	D	D	D	D	E	E	Propyl Acetate	D	D	G	D	D	E	G	D	E
Oxalic Acid	C	C	E	G	C	G	E	C	Propyl Alcohol (Propanol)	E	E	E	E	E	E	E	E	E
Oxygen, Cold	G	G	E	G	G	G	E	E	Propyl Aldehyde	C	D	G	D	D	D	G	D	E
Oxygen, Hot	D	D	D	D	D	D	G	E	Propyl Chloride	D	D	C	D	C	D	C	G	G
Ozone	D	C	G	D	G	E	E	E	Propylene Diamine	G	G	E	G	G	C	G	C	E
									Propylene Dichloride	D	D	D	D	D	D	G	C	G
Paint Thinner (Duco)	D	D	D	D	D	D	C	E	Propylene Glycol	E	E	E	E	E	E	E	E	E
Palmitic Acid	D	D	G	E	G	G	E	E	Pydraul Hydraulic Fluids	D	D	G	D	D	D	G	C	G
Palm Oil	D	D	E	E	G	G	E	E	Pyranol	D	D	D	C	D	D	D	E	E
Papermaker's Alum	E	E	E	E	E	E	E	E	Pyridine	D	D	G	D	D	D	G	D	E
Paradichlorobenzene	D	D	D	D	D	D	E	G	Pyroigneous Acid	C	C	G	C	G	G	G	E	E
Paraffin	D	D	D	E	E	D	D	E	Pyrrrole	C	G	G	D	D	D	C	C	E
Paraformaldehyde	D	D	G	G	G	G	C	E										
Peanut Oil	D	D	C	E	G	G	D	E	Rape Seed Oil	D	D	E	G	G	G	G	E	G
Pentachlorophenol	D	–	D	D	–	–	–	E	Red Oil (Crude Oleic Acid)	D	D	G	G	G	G	G	E	E
Pentane	D	D	D	E	E	G	D	E	Richfield A weed Killer, 100%	D	D	D	D	D	D	D	C	G
n–Pentane, 2–Methyl, 3–Methyl	–	–	–	–	E	–	–	E	Richfield B weed Killer, 33%	D	D	G	G	C	D	C	G	G
Pentene–2, 4–Methyl	–	–	–	–	G	–	–	E	Rosin Oil	D	D	D	E	E	G	D	E	E
Perchloroethylene	D	D	D	C	D	D	E	G	Rotenone And Water	E	E	E	E	E	E	E	E	E
Perchloric Acid	G	G	G	D	E	E	G	E	Rum	E	–	E	E	E	E	–	–	–
Permachlor (Degreasing Fluid)	–	–	–	D	–	–	–	C										
Petrolatum	D	D	D	E	E	C	D	E	Sal Ammoniac	E	E	E	E	E	E	E	E	E
Petroleum, Crude	D	D	D	E	G	D	D	E	(Ammonium Chloride)									
Petroleum Ether (Naphtha)	D	D	D	E	E	D	D	E	Salicylic Acid	E	G	E	D	D	E	E	E	E
Petroleum Oils	D	D	D	E	E	C	D	E	Salt Water (Sea Water)	E	E	E	E	E	E	E	E	E
Phenol	C	C	G	D	C	C	C	E	Secondary Butyl Alcohol	E	–	E	E	E	–	–	–	E
Phenolates (di–nitrols)	D	–	–	D	D	–	–	G	Sewage	C	C	C	E	G	E	G	E	E
Phenols (di–nitrols)	E	–	–	D	G	–	–	G	Shell DD	D	–	D	D	D	–	–	–	C
Phenolsulfonic Acid	D	D	C	D	C	D	C	E	Silicate of Soda (Sodium Silicate)	E	E	E	E	E	E	E	E	E
Phenyl Chloride	D	D	D	D	D	D	E	E	Silicate Esters	D	D	D	G	E	E	D	E	E
Phenyl Ethyl Ether	D	–	D	D	D	–	–	C	Silicone Greases	E	E	E	E	E	E	E	E	E
Phenylhydrazine	C	D	G	D	D	C	C	E	Silicone Oils	E	E	E	E	E	E	E	E	E
Phorone	D	D	E	D	D	D	G	C	Silver Nitrate	E	E	E	E	E	E	E	E	E
Phosphate Esters	D	D	E	D	D	D	E	C	Skelly Solvent	D	D	D	E	G	C	D	E	E
Phosphoric Acid, 10%	E	E	E	E	E	E	E	E	Skydrol Hydraulic Fluids	D	D	E	D	D	D	E	D	E
Phosphoric Acid, 10–85%	C	C	E	C	G	E	E	E	Soap Solutions	E	E	E	E	E	E	E	E	E
Phosphorous Trichloride	D	D	E	D	D	D	E	E	Soda Ash (Sodium Carbonate)	E	E	E	E	E	E	E	E	E
Pickling Solution	C	C	C	C	C	C	C	G	Soda, Caustic	E	G	E	G	E	E	E	D	E
Picric Acid, Molten	C	C	C	C	C	G	C	–	(Sodium Hydroxide)									
Picric Acid, Water Soln.	E	C	E	G	E	E	G	C	Soda, Lime	E	G	E	G	G	G	E	C	E
Pinene	D	D	D	E	D	D	D	E	Soda Niter (Sodium Nitrate)	E	E	E	E	E	E	E	E	E
Pine Oil	D	D	D	C	C	D	D	G	Sodium Acetate	D	D	E	D	D	D	G	D	E
Piperidine	D	D	D	D	D	D	D	D	Sodium Aluminate	E	E	E	E	E	E	E	E	E
Pitch	D	D	D	G	G	C	D	C	Sodium Bicarbonate	E	E	E	E	E	E	E	E	E
Plating Solutions, Chrome	D	D	E	G	G	C	E	E	Sodium Bisulfate	E	E	E	E	E	E	E	E	E
Plating Solutions, Others	E	E	E	G	G	C	E	G	Sodium Bisulfite	E	E	E	E	E	E	E	E	E
Polyvinyl Acetate Emulsion (PVA)	C	C	E	C	G	G	E	C	Sodium Borate	E	E	E	E	E	E	E	E	E
Polyethylene Glycol	E	E	E	E	E	E	E	E	Sodium Carbonate	E	E	E	E	E	E	E	E	E
Polypropylene Glycol	E	E	E	E	E	E	E	E	Sodium Chloride	E	E	E	E	E	E	E	E	E
Potassium Acetate	D	D	E	D	D	D	G	D	Sodium Chromate	D	D	E	D	C	C	G	C	G
Potassium Bicarbonate	E	E	E	E	E	E	E	E	Sodium Cyanide	E	E	E	E	E	E	E	E	E
Potassium Bisulfate	E	E	E	E	E	E	E	E	Sodium Dichromate	D	D	E	D	C	C	G	C	E
Potassium Bisulfite	E	E	E	E	E	E	E	E	Sodium Fluoride	E	E	E	E	E	E	E	E	E
Potassium Borate	E	–	E	E	E	E	–	E	Sodium Fluoroaluminate 10%	E	–	E	E	E	E	–	–	E
Potassium Bromide	E	–	E	E	E	E	–	E	Sodium Hydroxide	E	G	E	G	E	E	E	D	E
Potassium Carbonate	E	E	E	E	E	E	E	E	Sodium Hypochloride	C	–	C	C	C	E	–	–	E
Potassium Chlorate	E	–	E	E	E	E	–	E	Sodium Hypochlorite	C	D	G	D	D	C	G	E	G
Potassium Chloride	E	E	E	E	E	E	E	E	Sodium Iodide	–	–	E	–	E	–	–	–	E
Potassium Chromate	D	D	E	D	C	C	G	E	Sodium Metaphosphate	E	E	E	E	E	G	E	E	E
Potassium Cyanide	E	E	E	E	E	E	E	E	Sodium Nitrate	E	E	E	E	E	G	E	E	E
Potassium Dichromate	D	D	E	D	G	C	G	E	Sodium Nitrite	E	E	E	E	E	E	E	E	E
Potassium Hydrate	E	G	E	G	G	G	E	C	Sodium Perborate	C	D	E	D	D	D	G	E	E
Potassium Hydroxide	E	E	E	E	G	E	E	D	Sodium Peroxide	G	G	E	G	G	E	E	E	G
Potassium Iodide	–	–	E	–	E	–	–	–	Sodium Phosphate	E	E	E	E	E	E	E	E	E
Potassium Nitrate	E	E	E	E	E	E	E	E										
Potassium Nitrite	–	–	E	–	E	–	–	–										
Potassium Permanganate	D	D	E	D	D	D	E	E										
Potassium Phosphate	–	–	E	–	E	–	–	–										
Potassium Silicate	E	E	E	E	E	E	E	E										
Potassium Sulfate	E	E	E	E	E	E	E	E										
Potassium Sulfide	E	E	E	E	E	E	E	E										
Potassium Sulfite	E	E	E	E	E	E	E	E										
Potassium Thiosulphate	–	–	E	–	E	–	–	–										
Producer Gas	D	D	D	E	G	G	D	E										

1.0

Natural Rubber
Buna-S (SBR)

1.1

Butyl
Neoprene

1.15

Nitrile
EPDM

1.2

Hypalon

3.8

Viton

Teflon–See Price List

The Comparative Cost Index

provides approximate cost comparisons between natural rubber and other materials for expansion joints of average diameter between 11/2" and 96" when the tube and cover are of the same elastomer.



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