

ELASTOMER SPECIFICATION TABLES

***Select The Elastomer Best Suited For
The Chemicals In your System***



***If It's
Rubber,
We Can
Make It.***



HOLZ

Rubber Company, Inc.

**Engineered Elastomeric Solutions
800-285-1600**

HOW TO SELECT THE ELASTOMER BEST SUITED FOR THE CHEMICALS IN YOUR SYSTEM:



1. LOCATE THE SPECIFIC CHEMICAL in your system in the alphabetical chart of chemicals listed in Table 1.
2. SELECT THE BEST TUBE MATERIAL. Holz elastomer resistance ratings appear opposite each chemical. Refer to the "Key to Chemical Guide" on this page. Pick the elastomer or elastomers with the best rating(s). The elastomer name is listed at the head of each column.
3. REFER TO TABLE 2. "Material Code Selection Chart". SELECT THE SURROUNDING ATMOSPHERE AND DESIGN TEMPERATURE which most closely approximates your conditions. DETERMINE THE BEST MATERIAL CODE COMBINATION.

KEY TO CHEMICAL GUIDE:

- A -- EXCELLENT:** Long service may be expected with little or no effect on elastomer-suitable for continuous service.
- B -- GOOD:** Good service may be expected but elastomer will be affected by the exposure-usually suitable for continuous or intermittent service.
- C -- CONDITIONAL:** Fair service may be expected if chemical exposure is limited or infrequent. Not recommended for continuous use but may give some service if it is the only elastomer available.
- X -- NOT RECOMMENDED.**
- -- INSUFFICIENT INFORMATION:** No data available at the time publication to determine an accurate rating, but not expected to perform better than rated compounds.

RATINGS AND CONDITIONS:

This "Chemical Recommendation Chart" is to be used only as a guide in selecting the most satisfactory combination of elastomers for resistance to various chemical solutions.

The specific rating found in this chart are based upon past field experience, the advice of various polymer suppliers and specific laboratory experiments. It must be stressed, however, that this information is offered only as a guide, and because of variables in actual service conditions, the accuracy of the ratings cannot be guaranteed. Actual service life can be determined only by the user evaluating the elastomer in actual service conditions.

CAUTION:

Ratings are based upon ambient temperature of 70F. unless stated otherwise.
Higher temperatures increase the effect of all chemicals on elastomers. An elastomer that is suitable at room temperature might fail at elevated temperatures.

MEDIA PIPED/PUMPED		"TUBE" ELASTOMER									
CHEMICAL	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE	
Absolute Alcohol	A	X	A	A	A	A	A	B	A	A	
Acetaldehyde	C	X	C	X	A	C	A	X	A	A	
Acetamide	C	X	B	B	A	B	A	B	A	B	
Acetate of Lime	B	--	B	B	A	A	A	X	A	--	
Acetate Solvents	C	--	X	X	-	X	C	X	A	--	
Acetic Acid-Common	B	C	B	C	B	B	A	C	A	A	
Acetic Acid-Dilute	B	B	B	C	A	B	A	A	A	A	
Acetic Acid-Glacial	C	C	C	C	B	C	B	C	A	B	
Acetic Acid-Common10%1.8 BE	B	B	B	C	A	B	A	C	A	A	
Acetic Acid-20%	B	B	B	C	B	B	A	C	A	A	
Acetic Acid-30%, 5.4 BE	B	C	B	C	B	B	A	C	A	A	
Acetic Acid-50%, 7.9 BE	C	C	C	C	B	B	A	C	A	B	
Acetic Acid-99.5% Glacial	C	C	C	C	B	C	B	C	A	B	
Acetic Aldehyde	C	C	C	X	A	C	A	X	A	A	
Acetic Anhydride	C	B	B	B	B	A	B	X	A	C	
Acetic Ester	X	X	X	X	B	X	B	X	A	B	
Acetic Ether	X	X	X	X	B	X	B	X	A	B	
Acetic Oxide	C	B	B	C	B	A	B	X	A	C	
Acetidin	X	X	X	X	B	X	B	X	A	B	
Acetoacetic Acid	B	--	X	X	B	--	--	--	A	--	
Acetoacetic Ester	B	-	X	X	B	X	B	-	A	--	
Acetone	B	X	B	X	A	B	A	X	A	A	
Acetone Cyanhydrin	C	X	B	X	A	C	X	X	A	A	
Acetonic	B	X	B	X	A	B	A	X	A	A	
Acetonitrile	B	--	A	C	A	B	A	X	A	--	
Acetophenone	C	X	X	X	A	X	A	X	A	--	
Acetyl Acetic Acid	B	--	X	X	B	--	--	--	A	--	
Acetyl Acetone	C	B	X	X	B	X	A	X	A	--	
Acetyl Acetonic	C	B	X	X	B	X	A	X	A	--	
Acetyl Benzene	C	X	X	X	A	X	A	X	A	--	
Acetyl Chloride	X	--	X	X	C	X	C	X	C	X	
Acetylene	A	--	B	A	A	B	A	A	A	C	
Acetylene Dichloride	X	--	X	X	C	X	--	--	A	A	
Acetylene Tetrabromide	X	--	X	X	X	X	--	--	A	--	
Acetylene Tetrachloride	X	--	X	X	X	X	X	X	A	C	
Acetyl Oxide	C	--	X	C	A	B	--	X	A	--	
Acetyl Propane	X	--	X	X	B	X	B	X	A	--	
Acrolein	B	--	--	B	A	B	--	--	A	--	
Acrylic Aldehyde	B	--	--	B	A	B	--	--	A	--	
Acrylonitrile	B	--	B	X	C	C	X	X	A	X	
Adipic Acid (Adipinic Acid)	A	--	X	B	X	--	--	--	A	--	
Adipic Ketone	X	--	--	X	X	X	--	X	A	--	
Agar-Agar	A	--	B	B	A	--	--	--	A	--	
Agricultural Lime	A	A	A	A	A	B	A	A	A	A	
Air	A	--	A	A	A	A	A	A	A	A	
Air Gas	C	A	B	A	B	B	C	A	A	B	
Airshow	--	--	--	B	X	--	--	--	A	--	
Air-Stacked Lime	A	-	A	A	A	--	--	--	A	--	
Alcohol-Absolute	A	X	A	A	A	A	A	B	A	A	
Alcohol-Aliphatic	A	--	A	A	-	A	A	A	A	--	
Alcohol-aromatic	C	--	C	C	--	--	C	A	A	--	
Alcohol-Denatured	A	X	A	A	A	A	B	A	A	A	
Alcohol-Ethyl	A	X	A	A	A	A	A	B	A	A	
Alcohol-Grain	A	X	A	A	A	A	A	B	A	A	
Alcohol-Methyl	A	X	A	A	A	A	B	C	A	A	
Alcohol Ether	X	--	C	C	A	B	A	B	A	--	
Alcohol of Vinegar	A	B	B	C	A	B	A	A	A	A	
Aldehyde	C	C	C	X	A	C	A	X	A	A	
Alicyclic Hydrocarbon	X	B	X	B	X	X	X	A	A	X	
Aliphatic Hydrocarbon	X	B	B	A	X	B	X	A	A	X	

MEDIA PIPED/PUMPED		"TUBE" ELASTOMER									
CHEMICAL	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE	
Aliphatic Naphtha	X	--	X	C	X	B	--	A	A	--	
Alkazene	X	B	X	X	X	X	X	A	A	--	
Alk-Tri	X	--	--	X	X	X	--	A	A	--	
Allomaleic Acid	B	--	B	C	X	B	--	A	A	B	
Allyl Alcohol	A	--	A	A	A	A	A	B	A	--	
Allyl Aldehyde	B	--	--	B	A	B	--	A	A	--	
Allyl Bromide	X	--	X	X	X	X	--	B	A	--	
Allyl Chloride	X	--	X	X	C	X	X	B	A	--	
Allyl Phenyl Methyl Ether	X	--	--	X	X	X	--	B	A	--	
Almond Oil, Artificial	X	X	X	X	B	X	B	X	A	C	
Alpha Chloropropylene	X	--	X	X	X	--	--	--	A	--	
Alpha Chlorotoluene	X	--	X	X	X	--	--	--	A	--	
Alpha Hydroxypropionic Acid	A	--	B	B	A	--	--	--	A	--	
Alpha Hydroxtoluene	X	--	X	X	A	--	--	--	A	--	
Alum (also see type)	A	--	A	A	A	A	A	A	A	A	
Alum-NH3-CR-K	A	--	A	A	A	A	X	A	A	A	
Aluminum Acetate	A	--	B	C	A	B	A	X	A	X	
Aluminum Acetate Solution	A	--	B	B	B	--	--	--	A	--	
Aluminum Ammonium Sulfate	A	--	B	B	A	--	--	--	A	--	
Aluminum Bromide	A	--	A	A	B	A	--	--	A	--	
Aluminum chloride	A	B	A	A	A	A	A	A	A	B	
Aluminum Fluoride	A	--	A	A	A	A	B	A	A	B	
Aluminum Formate	X	--	--	X	B	X	--	X	A	--	
Aluminum Hydroxide	A	--	A	B	A	B	A	C	A	--	
Aluminum Nitrate	A	--	A	A	A	A	A	A	A	B	
Aluminum Phosphate	A	--	A	A	A	A	A	A	A	A	
Aluminum Potassium Sulfate	A	--	A	A	A	A	A	A	A	A	
Aluminum Sodium Sulfate	A	A	A	A	A	A	A	A	A	A	
Aluminum Sulfate	A	A	A	A	A	A	A	A	A	A	
Aluminum Sulphate	A	A	A	A	A	A	A	A	A	A	
American Ashes	A	--	A	A	A	A	A	A	A	--	
Aminobenzene	X	C	C	X	A	C	B	A	A	B	
Aminodimethylbenzene	X	--	X	X	B	--	--	--	A	--	
Aminoethanol	B	C	B	B	A	B	B	C	A	B	
Aminoethylethanolamine	B	--	--	B	A	B	--	--	A	--	
Aminohexane	C	--	--	C	B	C	--	X	A	--	
Aminopentane	C	--	X	C	B	C	X	X	A	--	
Aminoxylene	X	--	X	X	B	X	C	C	A	X	
Ammonia Alum	A	--	B	B	B	--	--	--	A	--	
Ammonia-Anhydrous (liquid)	A	B	A	B	A	B	A	C	A	C	
Ammonia Cupric Sulfate	C	--	--	A	A	A	--	A	A	--	
Ammonia Gas (Cold)	A	--	A	A	A	A	X	A	A	A	
Ammonia Gas (Hot)	C	--	B	C	C	C	X	A	A	A	
Ammonia in Water	A	B	A	B	A	B	A	C	A	C	
Ammoniak	A	A	A	A	A	A	A	A	A	B	
Ammoniated Citric Acid	A	--	B	B	A	--	--	--	A	--	
Ammoniated Latex	C	--	A	B	--	C	B	A	A	--	
Ammonium Acetate	A	--	A	--	--	--	--	--	A	--	
Ammonium Alum	A	--	B	B	A	--	--	--	A	--	
Ammonium Bicarbonate	A	--	A	A	A	A	A	--	A	--	
Ammonium Bifluoride-10%	X	--	X	B	X	--	--	--	A	--	
Ammonium Carbonate	A	--	B	X	A	B	A	A	A	B	
Ammonium Chloride	A	A	A	A	A	A	A	A	A	B	
Ammonium Chromic Sulfate	A	--	A	A	A	--	--	--	A	--	
Ammonium Dichromate	A	--	A	A	A	A	A	--	A	--	
Ammonium Diphosphate	A	--	A	A	A	A	A	A	A	A	
Ammonium Fluoride	B	--	B	B	A	--	--	--	A	--	
Ammonium Fluoride Acid	X	--	X	B	X	--	--	--	A	--	
Ammonium Hydrate-38%	A	--	A	A	A	--	--	--	A	--	
Ammonium Hydroxide	B	A	B	B	A	A	A	A	A	A	
Ammonium Hyposulfite	A	--	A	A	A	A	A	A	A	--	
Ammonium Metaphosphate	A	--	A	A	A	A	A	A	A	--	
Ammonium Muriate	A	A	A	A	A	A	A	A	A	B	
Ammonium Nitrate	A	X	A	A	A	A	A	A	A	B	
Ammonium Nitrite	B	--	A	A	A	A	A	--	A	B	

MEDIA PIPED/PUMPED		"TUBE" ELASTOMER									
CHEMICAL	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE	
Ammonium Persulfate	A	X	A	C	B	A	B	A	A	--	
Ammonium Phosphate, Dibasic	A	--	A	A	A	A	A	A	A	A	
Ammonium Phosphate, Monobasic	A	--	A	A	A	A	A	A	A	A	
Ammonium Phosphate, Tribasic	A	--	A	A	A	A	A	A	A	A	
Ammonium Rhodanate	A	--	A	A	A	A	A	A	A	--	
Ammonium Sulfate	A	A	A	A	A	A	A	A	A	A	
Ammonium Sulfide	A	--	A	A	A	A	--	A	A	--	
Ammonium Sulfite	A	--	--	A	A	A	--	A	A	--	
Ammonium Sulphate	A	A	A	A	A	A	A	A	A	A	
Ammonium Thiocyanate	A	--	A	A	A	A	A	A	A	--	
Ammonium Thiosulfate	A	--	A	A	A	A	A	A	A	--	
Amoil	X	--	--	X	A	X	--	C	A	--	
Amyl Acetate	C	X	X	X	B	X	B	X	A	X	
Amyl Acetic Ester	C	X	X	X	B	C	B	X	A	X	
Amyl Acetone	X	--	--	X	B	X	--	X	A	--	
Amyl Acid Aposphate	X	--	X	--	X	--	--	--	A	--	
Amyl Alcohol	A	C	A	B	A	A	A	A	A	X	
Amyl Amine	C	--	X	C	B	C	X	X	A	--	
Amyl Borate	X	--	B	A	X	A	X	A	A	--	
Amyl Bromide	X	--	X	X	X	X	X	A	A	--	
Amyl Carbinol	B	X	B	A	B	A	C	B	A	B	
Amyl Chloride	X	--	X	X	C	X	X	A	A	--	
Amyl Chloronaphthalene	X	X	X	B	X	C	X	A	A	X	
Amyl Ether	X	--	X	C	X	C	X	--	A	--	
Amyl Hydrate	A	--	B	B	A	--	--	--	A	--	
Amyl Hydride	X	--	B	A	X	B	X	A	A	--	
Amyl Iodide	X	--	X	X	X	X	X	--	A	--	
Amyl Naphthalene	X	X	X	X	X	X	X	A	A	X	
Amyl Oleate	X	--	--	B	X	X	--	--	A	X	
Amyl Phenol	X	--	--	X	X	X	--	A	A	--	
Amyl Phthalate	X	--	--	X	A	X	--	C	A	--	
Amylene	X	--	A	B	X	X	X	A	A	--	
Anethole (Anethol)	X	--	--	X	X	X	--	B	A	--	
Aniline, Aniline Oils	X	C	C	X	A	C	B	A	A	B	
aniline Chloride	B	X	X	C	C	X	B	B	A	X	
Aniline Dyes	B	X	B	C	A	B	A	A	A	A	
Aniline Hydrochloride	A	X	X	C	C	X	B	B	A	X	
Aniline Salts	B	X	X	C	C	X	B	B	A	X	
Animal Fats	X	A	B	A	B	C	A	A	A	B	
Animal Gelatin	A	A	A	A	A	A	A	A	A	A	
Animal Glue	B	A	A	A	B	A	B	A	A	A	
Animal Glycerin	X	--	--	A	B	--	B	A	A	B	
Animal Grease	X	A	B	A	C	C	A	A	A	B	
Animal Oils	X	--	--	A	B	X	--	A	A	--	
Anise Camphor	X	--	--	X	X	X	--	B	A	--	
Ansul Ether	X	B	X	C	C	C	C	X	A	X	
Ant Oil	X	X	C	X	A	A	A	X	A	C	
Antichlor	A	A	A	A	A	A	A	A	A	A	
Antimonic Chloride	X	--	--	X	X	--	--	--	A	--	
Antimonous Chloride	--	--	--	B	A	A	A	A	A	--	
Antimony Chlorides	--	--	--	B	A	A	A	A	A	--	
Antimony Pentachloride	X	--	--	X	X	--	--	--	A	--	
Antimony Trichloride	--	--	--	B	A	A	A	A	A	--	
Apple Acid	A	--	C	B	X	X	X	A	A	B	
Aqua Ammonia	A	--	B	B	A	--	--	C	A	--	
Aqua Regia	X	--	X	X	C	C	C	A	A	C	
Arachidonic Acid	X	--	X	B	A	--	--	--	A	--	
Arochlor (s)	X	--	X	C	C	C	C	A	A	B	
Aromatic Hydrocarbons	X	X	X	C	X	X	X	A	A	X	
Aromatic Spirits	X	--	--	C	X	--	--	A	A	--	
Aromatic Tar	X	--	--	C	X	--	--	--	A	--	
Aromatic Vinegar	A	B	B	C	A	A	A	A	A	A	
Aro-Tox Spray	--	--	C	C	--	--	--	--	A	--	
Arquads	A	--	--	A	A	--	--	--	A	--	
Arsenic Acied	A	C	A	B	A	A	A	A	A	A	

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

ELASTOMER SPECIFICATION TABLES

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Arsenic Butter	X	--	A	C	X	X	X	X	A	--
Arsenic Chloride	X	--	A	C	X	X	X	X	A	--
Arsenic Trichloride	X	--	A	C	X	X	X	X	A	--
Arsenous Chloride	X	--	A	C	X	X	X	X	A	--
Arsenous Trichloride	X	--	A	C	X	X	X	X	A	--
Artificial Vinegar	B	B	B	C	A	B	A	A	A	A
Askarel	X	X	C	B	X	B	X	A	A	C
Asphalt	X	B	B	A	X	B	X	A	A	X
ASTM-Ref: Fuel A	X	A	A	A	X	X	X	A	A	--
ASTM-Ref: Fuel B	X	B	C	A	X	X	X	A	A	--
ASTM-Ref: Fuel C	--	C	C	--	X	C	X	A	A	--
ASTM-Ref: #1 Oil	X	A	B	A	X	B	X	A	A	--
ASTM-Ref: #2 Oil	X	--	B	A	X	--	--	A	--	--
ASTM-Ref: #3 Oil	X	B	B	A	X	C	X	A	A	--
Astral Oil	X	C	B	A	X	C	X	A	A	X
Aviation Gasoline	X	--	C	A	X	X	X	A	A	--
Azole's	C	--	X	X	B	--	C	C	A	B
Baking Soda	A	--	A	A	A	A	A	A	A	A
Banana Oil	X	X	X	X	B	C	B	X	A	X
Bardol "B"	X	--	X	X	X	X	X	--	A	--
Barium Carbonate	A	--	A	A	A	A	A	A	A	--
Barium Chloride	A	A	A	A	A	A	A	A	A	A
Barium Hydrate	A	A	A	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A	A	A	A
Barium Monohydrate	A	--	A	A	A	--	--	A	--	--
Barium Monosulfide	A	A	A	A	A	A	A	A	A	B
Barium Octahydrate	A	--	A	A	A	--	--	A	--	--
Barium Sulfate	A	A	A	A	A	A	A	A	A	B
Barium Sulfide	A	A	A	A	A	A	A	A	A	B
Barium Sulphide	A	A	A	A	A	A	A	A	A	B
Basic Iron Sulfate	A	--	A	A	A	--	--	A	--	--
Beer	A	A	A	C	A	A	A	A	A	A
Beet Sugar Liquors	A	X	A	A	A	A	A	A	A	A
Bengal Gelatin	A	--	B	B	A	--	--	A	--	--
Benzal Chloride	--	--	--	X	B	--	--	A	--	--
Benzalcohol	C	--	C	X	A	B	C	A	A	--
Benzaldehyde	X	X	X	X	B	X	B	X	A	C
Benzene	X	X	X	C	X	X	X	A	A	X
Benzene Carbanal	X	X	X	X	B	X	B	X	A	C
Benzene Carboxylic Acid	B	--	A	X	A	A	B	B	A	B
Benzene Methylal	X	X	X	X	B	X	B	X	A	C
Benzene Sulfonic Acid	X	--	A	C	X	A	C	A	A	--
Benzidam	X	C	C	X	A	C	B	A	A	B
Benzin	X	--	B	A	X	X	X	A	A	A
Benzine	X	--	B	A	X	X	X	A	A	A
Benzine Solvent	X	--	B	A	X	X	X	A	A	A
Benzoic Acid	B	--	A	X	A	B	B	A	A	B
Benzoic Aldehyde	X	X	X	X	B	X	B	X	A	C
Benzol	X	X	X	C	X	X	X	A	A	X
Benzol Hydride	X	X	X	X	B	X	B	X	A	C
Benzoline	X	--	B	A	X	X	X	A	A	A
Benzophenol	X	--	X	X	B	--	--	A	--	--
Benzotrichloride	--	--	--	X	--	--	--	A	--	--
Benzoyl Chloride	X	X	X	X	X	X	B	A	X	X
Benzyl Acetate	X	--	--	X	A	B	--	X	A	--
Benzyl Alcohol	C	--	C	X	A	B	C	A	A	--
Benzyl Benzoate	X	--	X	X	A	--	B	A	A	--
Benzyl Chloride	X	X	X	X	C	X	X	A	A	X
Betula Oil	X	--	X	X	B	--	C	B	A	--
Biborate of Soda	A	A	A	B	A	A	A	A	A	B
Bicarbonate of Soda	A	--	A	A	A	A	A	A	A	A
Bichloride of Mercury	B	--	B	A	A	A	A	A	A	A
Bichromate of Soda	--	--	--	--	A	C	--	--	A	--
Biphenyl	X	--	X	X	X	X	A	A	C	C
Biphenyl Oxides	X	--	X	X	X	C	X	A	A	C

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Biphenyl Phthalate	X	--	--	X	A	X	--	C	A	--
Birch Oil	X	--	X	X	B	--	C	B	A	--
Bismuth Carbonate	A	--	A	A	A	A	A	A	A	--
Bismuth Subcarbonate	A	--	A	A	A	A	A	A	A	--
Bismuthyl Carbonate	A	--	A	A	A	A	A	A	A	--
Black Ash	A	--	A	A	A	A	A	A	A	A
Black Liquor	B	--	A	B	A	A	A	A	A	A
Black Liquor-Waste	X	--	B	A	X	C	X	A	A	--
Black Sulfate Liquor	A	--	A	B	A	A	A	A	A	A
Blanc Fixe, Synthetic	A	A	A	A	A	A	A	A	A	B
Blast Furnace Gas	C	--	A	C	C	B	B	A	A	A
Bleach Liquor	--	--	X	--	--	--	A	A	A	--
Bleach Solutions	X	--	X	X	B	B	A	A	A	B
Bleaching Powder	C	X	X	C	B	A	A	A	A	B
Blown Linseed Oil	X	B	B	A	A	B	B	A	A	X
Blue Copperas	C	A	A	A	A	A	A	A	A	A
Blue Jack	C	A	A	A	A	A	A	A	A	A
Blue Salts	A	A	A	A	A	A	A	A	A	A
Blue Stone	C	A	A	A	A	A	A	A	A	A
Blue Vitrol	C	A	A	A	A	A	A	A	A	A
Boghead Naphtha	X	C	C	A	X	C	X	A	A	C
Boiled Linseed Oil	X	B	B	A	A	B	B	A	A	X
Boletic Acid	B	--	--	X	--	--	--	A	--	--
Bone Oil	--	--	--	A	B	X	--	A	A	--
Bone Tar	X	--	--	A	B	X	--	A	A	--
Boracic Acid	A	A	A	A	A	A	A	A	A	A
Borax	A	A	A	B	A	A	A	A	A	B
Borax Decahydrate	A	--	B	A	A	--	--	A	--	--
Bordeaux Mixture	A	--	A	A	A	A	A	A	A	B
Boric Acid	A	A	A	A	A	A	A	A	A	A
Brake Fluid-Vegetable	X	--	B	B	A	--	--	A	--	--
Brandol	C	B	C	C	C	A	B	A	A	X
Brandy	A	X	A	A	A	A	A	B	A	A
Brine	A	A	A	A	A	A	A	A	A	A
Bromallylene	X	--	X	X	X	X	--	B	A	--
Bromine-Gas	X	X	X	X	X	C	X	B	A	C
Bromine-Anhydrous	--	X	X	--	--	C	C	A	A	B
Bromine Trifluoride	X	X	X	X	X	X	X	X	A	X
Bromine Water	--	--	B	--	--	A	--	A	A	--
Bromobenzene	X	X	X	X	X	X	X	B	A	X
Bromochloromethane	X	--	X	X	B	X	B	C	A	--
Bromoethylene	X	--	X	X	X	X	C	B	A	--
Bromomethane	C	--	X	C	B	X	A	A	A	--
Bromopentane	X	--	X	X	X	X	X	B	A	--
Bromotoluene	X	--	--	X	X	X	--	B	A	--
Bronzing Liquid	C	X	X	X	B	C	B	X	A	X
Brown Acetate	B	--	B	B	A	A	A	X	A	--
Bruceite	A	A	B	B	A	A	A	B	A	B
Budium	--	--	--	--	--	--	--	--	A	--
Bunker C	X	B	B	A	X	X	X	A	A	B
Bunker Oil	X	B	B	A	X	X	X	A	A	B
Burnt Allum	A	--	A	A	A	A	A	A	A	A
Burnt Lime	A	--	A	A	A	A	A	--	A	--
Burnt Potash	A	--	A	B	A	--	--	--	A	--
Burow's Solution	A	--	B	B	B	--	--	--	A	--
Butadiene	X	X	B	X	C	B	C	A	A	--
Butanal (Butal)	X	C	C	X	B	C	B	X	A	C
Butane	X	A	B	A	X	A	C	A	A	--
Butanoic Acid	C	--	C	C	C	C	C	C	A	--
Butanol	A	X	A	B	A	A	A	A	A	B
Butanone	X	X	X	X	B	X	A	X	A	C
Butarol	A	--	B	B	A	--	--	--	A	--
1-Butene	X	--	A	--	X	--	X	A	A	--
1-Butene, 2-Ethyl	X	--	B	--	X	--	X	A	A	--
Butoxyethanol	X	--	C	B	A	B	A	C	A	--

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

ELASTOMER SPECIFICATION TABLES

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Arsenic Butter	X	--	A	C	X	X	X	X	A	--
Arsenic Chloride	X	--	A	C	X	X	X	X	A	--
Arsenic Trichloride	X	--	A	C	X	X	X	X	A	--
Arsenous Chloride	X	--	A	C	X	X	X	X	A	--
Arsenous Trichloride	X	--	A	C	X	X	X	X	A	--
Artificial Vinegar	B	B	B	C	A	B	A	A	A	A
Askarel	X	X	C	B	X	B	X	A	A	C
Asphalt	X	B	B	A	X	B	X	A	A	X
ASTM-Ref: Fuel A	X	A	A	A	X	X	X	A	A	--
ASTM-Ref: Fuel B	X	B	C	A	X	X	X	A	A	--
ASTM-Ref: Fuel C	--	C	C	--	X	C	X	A	A	--
ASTM-Ref: #1 Oil	X	A	B	A	X	B	X	A	A	--
ASTM-Ref: #2 Oil	X	--	B	A	X	--	--	A	A	--
ASTM-Ref: #3 Oil	X	B	B	A	X	C	X	A	A	--
Astral Oil	X	C	B	A	X	C	X	A	A	X
Aviation Gasoline	X	--	C	A	X	X	X	A	A	--
Azole's	C	--	X	X	B	--	C	C	A	B
Baking Soda	A	--	A	A	A	A	A	A	A	A
Banana Oil	X	X	X	X	B	C	B	X	A	X
Bardol "B"	X	--	X	X	X	X	X	--	A	--
Barium Carbonate	A	--	A	A	A	A	A	A	A	--
Barium Chloride	A	A	A	A	A	A	A	A	A	A
Barium Hydrate	A	A	A	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A	A	A	A
Barium Monohydrate	A	--	A	A	A	--	--	--	A	--
Barium Monosulfide	A	A	A	A	A	A	A	A	A	B
Barium Octahydrate	A	--	A	A	A	--	--	--	A	--
Barium Sulfate	A	A	A	A	A	A	A	A	A	B
Barium Sulfide	A	A	A	A	A	A	A	A	A	B
Barium Sulphide	A	A	A	A	A	A	A	A	A	B
Basic Iron Sulfate	A	--	A	A	A	--	--	--	A	--
Beer	A	A	A	C	A	A	A	A	A	A
Beet Sugar Liquors	A	X	A	A	A	A	A	A	A	A
Bengal Gelatin	A	--	B	B	A	--	--	--	A	--
Benzal Chloride	--	--	--	X	B	--	--	--	A	--
Benzalcohol	C	--	C	X	A	B	C	A	A	--
Benzaldehyde	X	X	X	X	B	X	B	X	A	C
Benzene	X	X	X	C	X	X	X	A	A	X
Benzene Carbanal	X	X	X	X	B	X	B	X	A	C
Benzene Carboxylic Acid	B	--	A	X	A	A	B	B	A	B
Benzene Methylal	X	X	X	X	B	X	B	X	A	C
Benzene Sulfonic Acid	X	--	A	C	X	A	C	A	A	--
Benzidam	X	C	C	X	A	C	B	A	A	B
Benzin	X	--	B	A	X	X	X	A	A	A
Benzine	X	--	B	A	X	X	X	A	A	A
Benzine Solvent	X	--	B	A	X	X	X	A	A	A
Benzoic Acid	B	--	A	X	A	B	B	A	A	B
Benzoic Aldehyde	X	X	X	X	B	X	B	X	A	C
Benzol	X	X	X	C	X	X	X	A	A	X
Benzol Hydride	X	X	X	X	B	X	B	X	A	C
Benzoline	X	--	B	A	X	X	X	A	A	A
Benzophenol	X	--	X	X	B	--	--	--	A	--
Benzotrichloride	--	--	--	X	--	--	--	--	A	--
Benzoyl Chloride	X	X	X	X	X	X	B	A	X	X
Benzyl Acetate	X	--	--	X	A	B	--	X	A	--
Benzyl Alcohol	C	--	C	X	A	B	C	A	A	--
Benzyl Benzoate	X	--	X	X	A	--	B	A	A	--
Benzyl Chloride	X	X	X	X	C	X	X	A	A	X
Betula Oil	X	--	X	X	B	--	C	B	A	--
Biborate of Soda	A	A	A	B	A	A	A	A	A	B
Bicarbonate of Soda	A	--	A	A	A	A	A	A	A	A
Bichloride of Mercury	B	--	B	A	A	A	A	A	A	A
Bichromate of Soda	--	--	--	--	A	C	--	--	A	--
Bephenyl	X	--	X	X	X	X	X	A	A	C
Bephenyl Oxides	X	--	X	X	X	C	X	A	A	C

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Biphenyl Phthalate	X	--	--	X	A	X	--	C	A	--
Birch Oil	X	--	X	X	B	--	C	B	A	--
Bismuth Carbonate	A	--	A	A	A	A	A	A	A	--
Bismuth Subcarbonate	A	--	A	A	A	A	A	A	A	--
Bismuthyl Carbonate	A	--	A	A	A	A	A	A	A	--
Black Ash	A	--	A	A	A	A	A	A	A	A
Black Liquor	B	--	A	B	A	A	A	A	A	A
Black Liquor-Waste	X	--	B	A	X	C	X	A	A	--
Black Sulfate Liquor	A	--	A	B	A	A	A	A	A	A
Blanc Fixe, Synthetic	A	A	A	A	A	A	A	A	A	B
Blast Furnace Gas	C	--	A	C	C	B	B	A	A	A
Bleach Liquor	--	--	X	--	--	--	A	A	A	--
Bleach Solutions	X	--	X	X	B	B	A	A	A	B
Bleaching Powder	C	X	X	C	B	A	A	A	A	B
Blown Linseed Oil	X	B	B	A	A	B	B	A	A	X
Blue Copperas	C	A	A	A	A	A	A	A	A	A
Blue Jack	C	A	A	A	A	A	A	A	A	A
Blue Salts	A	A	A	A	A	A	A	A	A	A
Blue Stone	C	A	A	A	A	A	A	A	A	A
Blue Vitrol	C	A	A	A	A	A	A	A	A	A
Boghead Naphtha	X	C	C	A	X	C	X	A	A	C
Boiled Linseed Oil	X	B	B	A	A	B	B	A	A	X
Boleitic Acid	B	--	--	X	--	--	--	--	A	--
Bone Oil	--	--	--	A	B	X	--	A	A	--
Bone Tar	X	--	--	A	B	X	--	A	A	--
Boric Acid	A	A	A	A	A	A	A	A	A	A
Borax	A	A	A	B	A	A	A	A	A	B
Borax Decahydrate	A	--	B	A	A	--	--	--	A	--
Bordeaux Mixture	A	--	A	A	A	A	A	A	A	B
Boric Acid	A	A	A	A	A	A	A	A	A	A
Brake Fluid-Vegetable	X	--	B	B	A	--	--	--	A	--
Brandol	C	B	C	C	C	A	B	A	A	X
Brandy	A	X	A	A	A	A	A	B	A	A
Brine	A	A	A	A	A	A	A	A	A	A
Bromallyene	X	--	X	X	X	X	--	B	A	--
Bromine-Gas	X	X	X	X	X	C	X	B	A	C
Bromine-Anhydrous	--	X	X	--	--	C	C	A	A	B
Bromine Trifluoride	X	X	X	X	X	X	X	X	A	X
Bromine Water	--	--	B	--	--	A	--	A	A	--
Bromobenzene	X	X	X	X	X	X	X	B	A	X
Bromochloromethane	X	--	X	X	B	X	B	C	A	--
Bromoethylene	X	--	X	X	X	X	C	B	A	--
Bromomethane	C	--	X	C	B	X	A	A	A	--
Bromopentane	X	--	X	X	X	X	B	A	A	--
Bromotoluene	X	--	--	X	X	X	--	B	A	--
Bronzing Liquid	C	X	X	X	B	C	B	X	A	X
Brown Acetate	B	--	B	B	A	A	A	X	A	--
Bruceite	A	A	B	B	A	A	A	B	A	B
Budium	--	--	--	--	--	--	--	--	A	--
Bunker C	X	B	B	A	X	X	X	A	A	B
Bunker Oil	X	B	B	A	X	X	X	A	A	B
Burnt Allum	A	--	A	A	A	A	A	A	A	A
Burnt Lime	A	--	A	A	A	A	A	--	A	--
Burnt Potash	A	--	A	B	A	--	--	--	A	--
Burow's Solution	A	--	B	B	B	--	--	--	A	--
Butadiene	X	X	B	X	C	B	C	A	A	--
Butanal (Butal)	X	C	C	X	B	C	B	X	A	C
Butane	X	A	B	A	X	A	C	A	A	--
Butanoic Acid	C	--	C	C	C	C	C	C	A	--
Butanol	A	X	A	B	A	A	A	A	A	B
Butanone	X	X	X	X	B	X	A	X	A	C
Butarol	A	--	B	B	A	--	--	--	A	--
1-Butene	X	--	A	--	X	--	X	A	A	--
1-Butene, 2-Ethyl	X	--	B	--	X	--	X	A	A	--
Butoxyethanol	X	--	C	B	A	B	A	C	A	--

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

PHONE: (209) 368-7171 / 800-285-1600 • FAX: (209) 368-3246 / 800-756-9998 • EMAIL: sales@holzrubber.com

ELASTOMER SPECIFICATION TABLES

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
Butter	X	A	B	A	A	A	A	A	A	A
Butter of Antimony	--	--	--	B	A	--	A	A	A	--
Butter of Tin	A	B	A	A	B	A	B	A	A	B
Butter of Zinc	B	A	B	B	A	A	A	A	A	A
Butyl Acetate	X	C	X	X	B	X	B	X	A	X
n-Butyl Acetate	C	--	X	X	C	X	X	X	A	--
Butyl Acetate Ricinoleate	X	--	X	X	X	--	--	--	A	--
Butyl Acetoacetate	X	--	--	--	--	X	--	X	A	--
Butyl Acetyl Ricinoleate	X	--	X	C	A	C	C	A	A	--
Butyl Amine	X	--	X	X	C	X	X	X	A	A
Butyl Alcohol	A	X	A	A	A	A	A	A	A	B
Butyl (Normal) Alcohol	A	X	A	B	A	A	A	A	A	B
Butyl (Secondary) Alcohol	A	X	A	A	A	A	A	A	A	B
Butyl Aldehyde	X	C	C	X	B	C	B	X	A	C
Butyl Amine	C	X	X	B	B	C	X	X	A	B
Butyl Benzene	X	--	--	X	X	X	--	A	A	--
Butyl Benzoate	--	--	X	--	A	X	B	A	A	--
Butyl Benzyl Phthalate	X	--	--	X	A	X	--	C	A	--
Butyl Bromide	X	--	--	X	X	X	--	B	A	--
Butyl Butyrate	X	--	--	X	C	X	--	X	A	--
n-Butyl, n-Butrate	--	--	X	--	--	--	--	A	A	--
Butyl Carbitol	X	--	B	A	A	A	A	A	A	A
Butyl Cellosolve	X	--	C	B	A	B	A	C	A	--
Butyl Chloride	X	--	--	X	C	X	--	A	A	--
Butyl Ether	X	--	B	A	X	C	--	C	A	--
Butyl Ethyl Acetaldehyde	X	--	--	X	B	X	--	X	A	--
Butyl Ethyl Ether	X	--	--	B	X	B	--	--	A	--
Butyl Formate	X	--	X	X	--	--	--	--	A	--
Butyl Hydrate	A	X	A	A	A	A	A	A	A	B
Butyl Hydride	X	A	B	A	X	A	C	A	A	--
Butyl Hydroxide	A	X	A	A	A	A	A	A	A	B
Butyl Iodide	X	--	X	X	--	--	--	--	A	--
Butyl Methyl Ketone	--	--	--	--	--	--	--	--	A	--
Butyl Oleate	X	--	X	--	B	X	B	A	A	B
Butyl Oxide	X	--	B	A	X	C	--	C	A	--
Butyl Phthalate	X	--	--	X	B	X	--	C	A	--
Butyl Stearate	X	--	X	A	C	X	B	A	A	--
Butyl Tertiary Alcohol	A	X	A	A	A	A	A	B	A	B
Butylene	X	--	C	B	X	C	X	A	A	--
Butyraldehyde	X	C	C	X	B	C	B	X	A	C
Butyric Acid	C	--	C	C	C	C	C	C	A	--
Butyric Alcohol	A	--	B	B	A	--	--	--	A	--
Butyric Anhydride	C	--	--	C	C	B	--	--	A	--
Butyrene	X	--	--	X	B	X	--	X	A	--
Butyronitrile	X	--	X	X	A	--	A	--	A	--
Cadmium Acetate	X	--	--	X	A	A	--	X	A	--
Cadmium Cyanide	--	--	A	--	--	--	--	--	A	--
Cajeputene	X	--	X	C	X	X	A	A	A	--
Cake Alum	A	--	A	A	A	--	--	--	A	--
Calamine	B	--	B	B	A	A	--	A	A	--
Calcine Liqueur	--	--	--	A	A	--	--	--	A	--
Calcium Acetate	B	--	B	B	A	A	A	X	A	--
Calcium Aluminate	A	--	--	A	A	A	--	A	A	--
Calcium Bichromate	--	--	--	--	A	C	--	--	A	--
Calcium Bisulfate	A	A	A	A	A	A	A	A	A	B
Calcium Bisulfite	C	A	A	A	B	A	C	A	A	C
Calcium Bisulphite	C	A	A	A	B	A	C	A	A	C
Calcium Carbonate	A	--	A	A	A	A	A	A	A	--
Calcium Chlorate	A	--	A	A	A	A	A	A	A	--
Calcium Chloride	A	A	A	A	A	A	A	A	A	A
Calcium Fluorophosphate	--	--	A	--	--	--	--	A	A	--
Calcium Hydrate	A	A	A	A	A	B	A	A	A	A
Calcium Hydroxide	A	A	A	A	A	B	A	A	A	A
Calcium Hypochlorite	C	X	X	C	B	A	A	A	A	B
Calcium Monoxide	A	--	A	A	A	A	A	--	A	--

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
Calcium Nitrate	A	A	A	A	A	A	A	A	A	B
Calcium Oxide	A	--	A	A	A	A	A	--	A	--
Calcium Oxychloride-15%	C	X	X	C	B	A	A	A	A	B
Calcium Silicate	A	--	--	A	A	A	--	A	A	--
Calcium Silico-Aluminate	B	--	X	X	--	--	--	--	A	--
Calcium Sulfate	A	--	A	A	A	A	A	A	A	--
Calcium Sulthiyrate	A	--	--	A	A	A	--	A	A	--
Calcium Sulfide	A	A	B	A	A	A	A	A	A	B
Calcium Sulfite	A	--	--	A	A	A	--	A	A	--
Caliche	B	--	B	C	A	A	A	A	A	C
Caliche Liquors	B	--	B	C	A	A	A	A	A	C
Calx	A	--	A	A	A	A	A	--	A	--
Candol	X	B	B	A	X	X	X	A	A	C
Cane Sugar Liquors	A	X	A	A	A	A	A	A	A	A
Caprylic Acid	C	--	--	C	C	B	--	--	A	--
Caproic Aldehyde	X	--	C	X	B	--	--	--	A	--
Caproxyl Alcohol	X	--	X	X	X	--	--	--	A	--
Caproyl Alcohol	B	X	B	A	B	A	A	B	A	B
Caprol Hydride	X	B	B	A	X	B	X	A	A	--
Capryl Acetate	X	--	--	X	A	A	--	X	A	--
Capryl Alcohol	B	X	B	A	B	A	C	B	A	B
Caprylic Acid	C	--	--	C	C	B	--	--	A	--
Caprylic Alcohol	B	X	B	A	B	A	A	B	A	B
Caprylic Aldehyde	X	--	--	X	C	X	--	X	A	--
Carbamate	X	X	B	C	B	B	B	A	A	--
Carbamide	A	--	B	B	A	A	--	--	A	--
Carbazotic Acid	C	B	C	C	C	A	B	A	A	X
Carbinol	A	X	A	A	A	A	B	C	A	A
Carbitol	X	X	B	B	A	B	B	A	A	B
Carbitol Acetate	X	--	--	C	B	B	--	--	A	--
Carbolic Acid	X	C	C	X	B	C	C	A	A	X
Carbon Bisulfide	X	C	X	C	X	X	X	A	A	C
Carbon Dioxide (Wet or Dry)	A	A	A	A	A	A	A	A	A	A
Carbon Disulfide	X	C	X	C	X	X	X	A	A	C
Carbon Disulphide	X	C	X	C	X	X	X	A	A	C
Carbon Monoxide	C	A	B	C	C	B	C	A	A	A
Carbon Monoxide (Hot)	C	A	C	C	C	B	C	A	A	A
Carbon Tetrachloride	X	C	X	C	X	X	X	A	A	X
Carbon Tetrafluoride	X	--	X	X	B	X	B	--	A	--
Carbonic Acid	A	A	A	A	A	A	A	A	A	A
Carbonic Anhydride	A	A	A	A	A	A	A	A	A	A
Carboxybenzene	A	--	B	--	--	--	--	--	A	--
Casein (Casymen)	A	--	A	A	--	A	A	A	A	--
Casing Head Gasoline	X	--	--	A	X	X	--	A	A	--
Castor Oil	B	A	A	A	A	A	B	A	A	A
Caustic-Baryta	A	A	A	A	A	A	A	A	A	A
Caustic-Lime	A	--	A	A	A	A	A	--	A	--
Caustic-Potash	B	B	B	C	A	A	B	C	A	A
Caustic-Soda	A	C	B	C	A	B	A	B	A	C
Cellosize	X	--	--	X	A	X	--	--	A	--
Cellosolve	X	--	C	C	A	B	A	B	A	--
Cellosolve Acetate	C	X	X	C	A	X	A	A	A	C
Cellosolve Butyl	X	--	C	B	A	B	A	C	A	--
Cellulose Acetate	B	--	B	B	--	--	--	C	A	--
Cellulube Hydraulic Fluids	C	--	X	X	A	X	A	A	A	A
Ceylon Gelatin	A	--	B	B	A	--	--	--	A	--
Chile Niter (Nitre)	B	--	B	C	A	A	A	A	A	C
Chile Nitrate	B	--	B	C	A	A	A	A	A	C
Chile Salt Peter	B	--	B	C	A	A	A	A	A	C
China Bean Oil	X	B	B	A	B	B	C	B	A	C
China Wood Oil	X	B	B	A	B	B	C	B	A	C
Chinese Bean Oil	X	B	B	A	B	B	C	B	A	C
Chinese Gelatin	A	--	B	B	A	--	--	--	A	--
Chinese Wood Oil	X	B	B	A	B	B	C	B	A	C
Chloride of Lime	C	X	X	C	B	A	A	A	A	B

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

PHONE: (209) 368-7171 / 800-285-1600 • FAX: (209) 368-3246 / 800-756-9998 • EMAIL: sales@holzrubber.com

MEDIA PIPED/PUMPED		"TUBE" ELASTOMER									
CHEMICAL	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE	
Chlorinated Diphenyl	X	X	C	B	X	B	X	A	A	C	
Chlorinated Lime-35%	C	X	X	C	B	A	A	A	A	B	
Chlorinated Salt Brine	B	--	X	--	A	--	--	--	A	--	
Chlorinated Solvents (Wet or Dry)	X	--	X	X	X	X	X	A	A	X	
Chlorinated Tar Camphor	X	--	X	X	X	--	--	--	A	--	
Chlorine (Dry)	C	X	C	C	C	C	C	A	A	A	
Chlorine (Wet)	X	X	X	X	C	X	X	A	A	B	
Chlorine Agueon	X	--	--	--	X	--	--	--	A	--	
Chlorine Dioxide	X	--	X	X	X	B	C	A	A	C	
Chlorine Gas, Dry	C	--	C	C	C	X	X	B	A	--	
Chlorine Gas, Wet	X	--	X	C	C	X	X	C	A	--	
Chlorine Peroxide	X	--	X	X	X	B	C	A	A	C	
Chlorine Trifluoride	X	X	X	X	X	X	C	A	A	X	
Chlorine Water-Saturated	X	--	X	C	X	B	C	A	A	--	
Chlorine Water-3%	B	--	C	B	X	B	--	A	A	--	
Chloroacetic Acid	X	X	X	X	C	B	B	A	A	C	
Chloroacetone	X	--	C	X	C	B	X	B	A	--	
Chloroacetonitrile	C	--	C	C	C	--	--	--	A	--	
Chloroallylene	X	--	X	X	C	X	X	B	A	--	
Chloroazotic Acid	X	--	X	X	C	B	C	A	A	C	
Chlorobenzal	--	--	--	X	B	--	--	--	A	--	
Chlorobenzene	X	X	X	X	X	X	X	A	A	X	
Chlorobenzol	X	X	X	X	X	X	X	A	A	X	
Chlorobromomethane	X	--	X	X	C	X	B	A	A	X	
Chlorobutadiene	X	--	X	X	X	C	X	A	A	C	
Chlorobutane (Chlorobutanol)	X	--	--	X	C	X	--	A	A	--	
Chlorododecane	X	--	X	X	X	--	X	A	A	--	
Chloroethane	C	--	X	X	B	X	C	A	A	--	
Chloroethanoic Acid	X	X	X	X	C	B	A	A	A	C	
Chloroethanol	C	--	B	X	B	B	A	B	A	C	
Chloroethyl Alcohol	C	--	B	X	B	B	A	B	A	C	
Chloroethylbenzene	X	B	X	X	X	X	X	A	A	--	
Chloroform	X	C	X	X	X	X	X	A	A	C	
Chloromethane (Chloreomethyl)	X	--	X	X	C	X	C	B	A	X	
0-Chloronaphthalene	X	--	X	X	X	X	X	A	A	X	
1-Chloro 1-Nitro Ethane	X	X	X	X	X	X	X	C	A	X	
Chloronated Hydrocarbons	X	--	X	X	--	X	X	A	A	--	
Chloropentane	X	--	X	X	C	X	X	A	A	--	
Chlorophenic Acid	X	--	X	X	X	X	X	B	A	--	
0-Chlorophenol	X	--	X	X	X	X	X	B	A	--	
Chloroprene	X	--	X	X	X	C	X	A	A	C	
Chloropropanone	X	--	X	X	X	X	--	X	A	--	
Chloropropene	X	--	X	X	C	X	X	B	A	--	
Chloropropylene	X	--	X	X	X	--	--	--	A	--	
Chloropropylene Oxide	X	--	X	X	C	C	B	X	A	--	
Chlorosulfonic Acid	X	X	X	X	X	C	X	X	A	X	
Chlorothene	X	--	--	X	X	X	--	--	A	--	
Chlorotoluene	X	X	X	X	C	X	X	A	A	X	
Chlorotrifluoroethylene	X	--	--	X	X	--	--	--	A	--	
Chlorox	C	--	B	B	A	A	--	--	A	--	
Chrome Alum	A	--	A	A	A	--	--	--	A	--	
Chrome Ammonium Alum	A	--	A	A	A	--	--	--	A	--	
Chrome Plating Solutions	X	X	X	X	C	C	X	A	A	B	
Chromic Acid-to 25%	X	--	X	X	B	A	A	A	A	C	
Chromic Acid-Over 25%	X	X	X	X	X	A	C	A	A	C	
Chromicoat	X	--	X	--	--	--	--	--	A	--	
Chromium Ammonium Sulfate	A	--	A	A	A	--	--	--	A	--	
Chromium Potassium Sulfate	A	--	A	A	A	--	--	--	A	--	
Chrysolic Acid	C	B	C	C	C	A	B	A	A	X	
Cinene	X	--	X	C	X	X	A	A	A	--	
Circo Light Process Oil	X	--	B	A	--	--	--	--	A	--	
Citric Acid	A	A	A	B	A	A	A	A	A	A	
Citric Acid-Ammoniated	A	--	B	B	A	--	--	--	A	--	
Citrous Oils	X	--	X	C	B	X	B	--	A	--	
Cleaners Naphtha	X	--	X	B	X	--	--	A	A	--	

MEDIA PIPED/PUMPED		"TUBE" ELASTOMER									
CHEMICAL	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE	
Coal Oil	X	C	B	A	X	C	X	A	A	X	
Coal Tar-Bituminous	X	--	C	B	X	C	X	A	A	B	
Coal Tar-Creosote	X	B	B	A	X	B	X	A	A	C	
Coal Tar Naphtha	X	X	X	X	X	X	X	A	A	X	
Cobalt Chloride (2N)	A	X	A	A	A	--	C	A	A	A	
Coconut Oil (Butter)	X	A	B	B	A	B	A	A	A	A	
Cod Liver Oil	X	A	B	B	A	B	A	A	A	B	
Coke Oven Gas	C	--	C	C	C	A	X	A	A	A	
Cologne Spirits	A	X	A	A	A	A	A	B	A	A	
Colonial Spirit	A	X	A	A	A	A	B	C	A	A	
Columbian Spirits	A	X	A	A	A	A	B	C	A	A	
Colza Oil	X	B	B	B	A	B	A	A	A	X	
Common Alum	A	--	A	A	A	A	A	A	A	A	
Copper Acetate	--	--	B	B	A	B	A	--	A	--	
Copper Arsenate, Basic	A	--	A	A	A	A	A	A	A	--	
Copper Chloride	B	A	A	A	A	B	A	A	A	A	
Copper Cyanide	A	A	B	A	A	B	A	A	A	A	
Copper Hydrate	C	--	--	B	A	B	--	C	A	--	
Copper Hydroxide	C	--	--	B	A	B	--	C	A	--	
Copper Lasur	C	--	--	A	A	A	--	A	A	--	
Copper Nitrate	B	--	A	A	A	A	A	A	A	--	
Copper Nitrite	C	--	--	A	A	A	--	A	A	--	
Copper Sulfate	C	A	A	A	A	A	A	A	A	A	
Copper Sulfide	C	--	--	A	A	A	--	A	A	--	
Copper Sulphate	C	A	A	A	A	A	A	A	A	A	
Copperas Ferrous Sulfate	A	--	A	A	A	A	A	A	A	--	
Copra	X	A	B	B	A	B	A	A	A	--	
Corn Oil	X	A	B	A	A	B	A	A	A	A	
Corn Syrup (Sugar)	B	A	B	B	A	A	A	A	A	A	
Corrosive Sublimate	B	--	B	A	A	A	A	A	A	A	
Cottonseed Oil	X	A	B	A	A	B	A	A	A	A	
Cresol	X	X	X	C	X	B	X	A	A	C	
Creosote-Wood Tar	X	--	B	A	X	X	X	A	A	C	
Creosote-Coal Tar	X	B	B	A	X	B	X	A	A	C	
Cresols	X	X	X	C	X	B	X	A	A	C	
Cresyl Alcohol	X	X	X	C	X	B	X	A	A	C	
Cresyl Hydrate	X	X	X	C	X	C	X	A	A	C	
Cresylic Acid	X	X	X	C	X	C	X	A	A	C	
Crotonaldehyde	X	--	--	X	A	X	--	X	A	--	
Crude Oil	X	B	C	A	X	X	X	A	A	C	
Cryolite	A	--	A	B	A	--	B	A	A	--	
Cryolite, 10%	--	--	A	B	A	--	A	A	A	--	
Crysocoat F.H. Rinse	X	--	X	--	--	--	--	--	A	--	
Crysocoat H.C.	X	--	X	--	--	--	--	--	A	--	
Crysocoat L.T. & S.W.	X	--	X	--	--	--	--	--	A	--	
Crystal Ammonia	--	--	A	A	A	--	--	--	A	--	
Cubic Niter	B	--	B	C	A	A	A	A	A	C	
Cubic Saltpeter	B	--	B	C	A	A	A	A	A	C	
Cubnic	B	--	B	C	A	A	A	A	A	C	
Cumene	X	--	X	X	X	X	X	A	A	--	
Cupric Acetate	--	--	B	B	A	B	A	--	A	--	
Cupric Arsenate	A	--	A	A	A	A	A	A	A	--	
Cupric Carbonate	C	--	--	A	A	A	--	A	A	--	
Cupric Chloride	B	A	A	A	A	A	A	A	A	A	
Cupric Cyanide	A	A	B	A	A	B	A	A	A	A	
Cupric Hydroxide	C	--	--	B	A	B	--	C	A	--	
Cupric Nitrate	B	--	A	A	A	A	A	A	A	--	
Cupric Nitrite	C	--	--	A	A	A	--	A	A	--	
Cupric Sulfate	C	A	A	A	A	A	A	A	A	A	
Cupric Sulphate	C	A	A	A	A	A	A	A	A	A	
Cupric Sulfide	C	--	--	A	A	A	--	A	A	--	
Cyanomethane	B	--	A	C	A	B	A	X	A	--	
Cyclohexane	X	B	X	B	X	X	X	A	A	X	
Cyclohexanol	C	--	A	B	X	C	C	A	A	--	
Cyclohexanone	X	--	X	X	C	X	C	X	A	--	

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Cyclohexatriene	X	X	X	X	X	X	X	A	A	X
Cyclopentane	X	--	A	B	X	X	X	A	A	--
Cyclopentanol	X	--	--	B	X	X	--	B	A	--
Cyclopentanone	X	--	--	X	X	X	--	X	A	--
Cymene	X	--	X	C	X	X	X	A	A	X
D.B.P.	X	C	X	X	B	X	A	B	A	B
D.D.T. in Deodorized Kerosene	X	--	B	A	X	X	X	A	A	--
D.M.F.	X	--	X	B	--	--	--	A	A	--
D.M.P.	X	--	X	X	A	X	B	C	A	--
D.O.P.	X	--	X	X	B	--	--	--	A	--
Danforth's Oil	X	C	C	A	X	C	X	A	A	C
Decahydronaphthalene	X	X	X	X	C	X	X	A	A	--
Decalin (Deklin)	X	X	X	X	C	X	X	A	A	--
Decanal	X	--	--	X	C	X	X	X	A	--
Decane	X	B	X	B	C	X	C	A	A	B
Decanol	B	--	X	A	B	A	--	B	A	--
Decyl Alcohol	B	--	X	A	B	A	--	B	A	--
Decyl Aldehyde	X	--	--	X	C	X	--	X	A	--
Decyl Butyl Phthalate	X	--	--	X	A	X	--	C	A	--
Degreasing Fluid	X	--	X	X	C	X	X	A	A	--
Dehydrated Alcohol	A	X	A	A	A	A	A	B	A	A
Deionized Water	A	--	A	B	A	--	--	--	A	--
Denatured Alcohol	A	X	B	A	A	A	A	B	A	A
Detergent Solutions	B	A	B	A	A	A	A	A	A	A
Developing Fluids & Solutions	A	X	A	A	A	A	A	A	A	A
Dextronic Acid	X	--	--	C	C	B	--	--	A	--
Dextrose	B	A	B	B	A	A	A	A	A	A
Deacetic Acid	B	--	X	X	B	--	--	--	A	--
Diacetic Ester	B	--	X	B	--	--	--	--	A	--
Diacetic Ether	B	--	X	X	B	--	--	--	A	--
Diacetone	C	B	--	X	A	X	A	X	A	--
Diacetone Alcohol	B	B	B	X	A	B	B	C	A	A
Diacetylacetic Acid	B	--	X	X	B	--	--	--	A	--
Diamine (Diamidogen)	--	X	C	B	A	B	A	C	A	C
Diaminoethane	B	--	A	B	A	A	A	X	A	A
Diammonium Orthophosphate	A	--	A	A	A	A	A	A	A	A
Diamylamine	B	--	--	B	A	C	--	--	A	--
Diamylene	X	--	X	C	X	X	X	A	A	--
Diamyl Naphthalene	X	--	--	X	A	X	--	C	A	--
Diamyl Phenol	X	--	--	X	X	X	--	A	A	--
Diatol	X	--	X	X	X	--	--	--	A	--
Dibenzyl Ether	X	B	X	X	B	X	C	C	A	--
Dibenzyl Sebecate	X	X	X	X	B	X	B	B	A	B
Dibromobenzene	X	--	--	X	X	X	--	A	A	--
1,2-Dibromoethane	X	--	X	X	X	C	B	A	A	--
Dibutyl	X	--	--	A	X	X	X	A	A	X
Dibutyl Acetate	--	--	X	--	--	--	--	--	A	--
Dibutyl Amine	B	--	X	C	A	C	X	B	A	C
Dibutyl Ether	X	B	C	B	X	C	C	C	A	X
Dibutyl Phthalate	X	C	X	X	B	X	A	B	A	B
Dibutyl Sebecate	X	X	X	X	B	X	B	B	A	B
Dicalcium Phosphate	A	--	--	A	A	A	--	--	A	--
Dichloroacetic Acid	B	--	--	X	C	X	--	X	A	--
O-Dichlorobenzene	X	X	X	X	X	X	X	A	A	X
Dichlorobutane	X	--	--	X	X	X	--	A	A	--
Dichloro-Difluoro Methane	X	A	B	B	C	C	B	B	A	X
Dichloroethane	X	--	X	X	C	X	--	A	A	--
Dichloroethanoic Acid	B	--	--	X	C	X	--	X	A	--
Dichloroether	X	--	--	X	X	X	--	--	A	--
Dichloroethylene	X	--	X	X	C	X	X	A	A	--
Dichloroethyl Ether	X	--	--	X	X	X	--	--	A	--
Dichloro Fluoro Methane	X	--	X	X	C	X	X	X	A	X
Dichlorohexane	X	--	--	X	X	X	--	A	A	--
Dichloro-Isopropyl Ether	X	B	X	X	C	X	C	C	A	X
Dichloromethane	X	X	X	X	X	X	C	B	A	--

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Dichloropentane	X	--	--	X	X	X	--	A	A	--
Dichloropropane	X	--	X	X	X	X	X	B	A	--
Dichlorotetrafluoroethane	X	--	X	X	X	--	--	--	A	--
Dicyclohexylamine	X	--	X	X	X	B	X	B	A	--
Dieldrin in Xylene	X	--	X	X	--	X	X	B	A	--
Dieldrin in Xylene & Water Spray	X	--	B	B	--	X	X	B	A	--
Dieline	X	--	X	X	C	X	--	A	A	--
Diesel Oil	X	B	B	A	X	C	X	A	A	X
Diester Syn. Lub. Oil	X	--	X	X	X	--	--	--	A	--
Diethanol Amine	B	--	--	B	A	C	--	--	A	--
Diethyl Amine	B	C	A	C	A	C	C	C	A	B
Diethyl Benzene	X	X	X	X	X	X	X	A	A	X
Diethyl Carbinol	A	--	--	A	A	A	--	B	A	--
Diethyl Carbonate	X	--	X	X	X	--	--	--	A	--
Diethyl Ether	X	A	C	B	C	C	X	X	A	X
Diethyl Ketone	X	--	X	X	B	X	B	X	A	--
Diethyl Oxalate	C	--	X	X	C	X	X	--	A	--
Diethyl Oxide	X	A	C	B	C	C	X	X	A	X
Diethyl Phthalate	X	--	--	X	A	X	--	C	A	--
Diethyl Sebecate	X	--	X	X	B	C	B	A	A	B
Diethyl Sulfate	X	--	--	X	B	X	--	X	A	--
Diethyl Triamine	B	--	--	B	A	C	--	--	A	--
Diethylene Glycol-Monoalkyl Ether	X	--	X	A	A	--	--	--	--	--
Diethylene Glycol-Dialkyl Ether	X	--	X	A	A	--	--	--	--	--
Diethylene Glycol-Monoethyl Ether	X	--	B	A	A	A	A	A	A	A
Diethylene Glycol-Monoethyl Ether	X	X	B	B	A	B	B	A	A	B
Diethylene Oxide	X	--	X	X	A	X	A	X	A	X
Diethylene Triamine	B	--	--	B	A	C	--	--	A	--
Digallic Acid	A	A	A	C	B	A	B	A	A	B
Dihydroxydiethyl Amine	B	--	--	B	A	C	--	--	A	--
Dihydroxydiethyl Ether	A	--	B	A	A	A	--	A	A	--
Dihydroxyethyl Amine	B	--	--	B	A	C	--	--	A	--
Dihydroxypropane	A	--	--	A	A	A	A	A	A	--
Dihydroxysuccinic Acid	A	A	C	B	B	A	B	A	A	A
Diisobutyl Ketone	X	--	X	X	C	X	B	X	A	--
Diisobutylene	X	--	C	B	X	C	--	A	A	X
Diisodecyl Adipate	X	--	--	X	A	X	--	C	A	--
Diisodecyl Phthalate	X	--	X	X	A	X	A	C	A	--
Diisooctyl Adipate	X	--	--	X	A	X	--	C	A	--
Diisooctyl Phthalate	X	--	--	X	A	X	--	C	A	--
Di-isoprene	X	--	X	C	X	X	X	A	A	--
Diisopropanol Amine	B	--	--	B	A	C	--	--	A	--
Diisopropyl Amine	B	--	--	B	A	C	--	--	A	--
Diisopropyl Benzene	X	--	X	X	X	X	X	A	A	--
Diisopropyl Ether	X	--	X	B	X	C	X	--	A	--
Diisopropyl Ketone	X	--	X	X	B	X	A	X	A	--
Dilauryl Ether	X	--	--	B	--	B	--	--	A	--
Dimethyl Amine	B	--	--	B	A	C	--	--	A	--
Dimethyl Aniline	X	--	X	X	B	X	B	C	A	X
Dimethyl Benzene	X	C	X	C	X	X	--	--	A	X
Dimethyl Carbinol	A	X	A	B	A	A	B	A	A	A
Dimethyl Ether	X	--	--	A	C	B	--	--	A	--
Dimethyl Formamide	X	--	X	C	B	X	--	A	A	A
Dimethyl Ketal	B	X	C	X	A	B	A	X	A	A
Dimethyl Ketone	B	X	C	X	A	B	A	X	A	A
Dimethyl Methane	X	B	B	A	X	B	X	A	A	C
Dimethyl Phenol	X	--	--	X	X	X	--	--	A	--
Dimethyl Phthalate	X	--	X	X	A	A	B	C	A	--
Dimethyl Sulfate	X	--	--	X	B	X	--	X	A	--
Dimethyl Sulfide	X	--	--	X	C	C	--	--	A	--
Dinitrobenzene	X	--	--	X	C	X	--	--	A	--
Dinitrotoluene	X	--	X	X	X	X	X	B	A	B

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

PHONE: (209) 368-7171 / 800-285-1600 • FAX: (209) 368-3246 / 800-756-9998 • EMAIL: sales@holzrubber.com

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Diocetyl Adipate	X	-	X	X	A	X	B	C	A	-
Diocetyl Amine	B	-	-	B	A	C	-	-	A	-
Diocetyl Phthalate	X	C	X	X	A	X	B	A	A	C
Diocetyl Sebecate	X	B	X	X	A	X	B	B	A	C
Dioform	X	-	X	X	C	X	-	A	A	-
Dioxane (Dioxan)	X	-	X	X	A	X	A	X	A	X
Dioxethylene Ether	X	-	X	X	X	-	-	-	A	-
Dioxolanes (Dioxolans)	X	-	X	X	C	X	C	B	A	-
Dipentene	X	-	X	C	X	X	X	A	A	-
Dephenyl	X	-	X	X	X	X	X	A	A	C
Diphenyl Oxides	X	-	X	X	X	C	X	A	A	C
Diphenyl Phthalate	X	-	-	X	A	X	-	C	A	-
Dippel's Oil	X	-	-	A	B	X	-	A	A	-
Dipropylamine	B	-	-	B	A	C	-	-	A	-
Dipropylene Glycol	A	-	-	A	A	A	-	A	A	-
Dipropyl Ketone	X	-	-	X	B	X	-	X	A	-
Dipropyl Methane	X	-	A	A	X	B	X	A	A	-
Disodium Phosphate	A	-	-	A	A	A	-	-	A	-
Dispersing Oil #10	X	-	X	X	X	-	X	C	A	-
Distilled Vinegar	A	B	B	C	A	B	A	A	A	A
Divinyl Benzene	X	-	-	X	X	X	-	A	A	-
Divinyl Ether	X	-	-	B	X	B	-	X	A	-
D.M.P.	X	-	-	X	X	X	-	X	A	-
Dodecanol	A	-	-	A	A	A	-	B	A	-
Dodecyl Alcohol	A	-	-	A	A	A	-	B	A	-
Dodecyl Benzene	X	-	-	X	X	X	-	A	A	-
Dodecyl Toluene	X	-	-	X	X	X	-	A	A	-
Douglas Fir Oil	X	-	X	B	-	-	-	-	A	-
Dow General Weed Killer (Phenc)	-	-	-	X	-	-	-	-	A	-
Dow General Weed Killer (Water)	-	-	-	B	-	-	-	-	A	-
Dowfume W-40 100% Fumigant	X	-	X	X	X	-	C	C	A	-
Dow Per	X	-	-	C	X	X	-	A	A	-
Dow Purifloc C-31	A	-	A	A	-	-	-	-	A	-
Dowtherm A	X	B	C	C	X	B	X	A	A	B
Dowtherm E	X	-	X	X	X	B	X	A	A	A
Dowtherm Oil	X	B	X	-	X	X	X	A	A	B
Dowtherm S.R.-1	A	-	-	A	A	A	-	A	A	-
Dry Cleaning Fluids	X	C	X	C	X	X	X	A	A	X
Dry Cleaning Solvent	X	A	C	A	X	X	X	A	A	X
Drycid	C	-	C	-	-	-	-	-	A	-
Dutch Oil	X	-	X	X	C	-	X	-	A	-
Dutch Liquid	X	-	X	X	C	-	X	-	A	-
Earth Pitch	X	B	B	A	X	B	X	A	A	X
Epichlorohydrine	X	-	X	X	C	C	B	X	A	-
Eqsom Salts	A	-	A	A	A	A	A	A	A	A
Essence of Myrbane	X	X	X	X	C	X	C	A	A	C
Ethamine	B	-	X	X	A	C	A	X	A	-
Ethanal	C	C	C	X	A	C	A	X	A	A
Ethanamide	C	X	B	B	A	B	A	B	A	B
Ethane	X	B	B	A	X	B	X	A	A	X
Ethane Nitrile	B	-	A	C	A	B	A	X	A	-
Ethanedioic Acid	B	-	B	B	A	A	A	C	A	B
Ethanethiol	X	-	X	X	X	X	X	B	A	-
Ethanoic Acid (See Acetic Acid)	-	-	-	-	-	-	-	-	A	-
Ethanol	A	X	B	A	A	A	A	B	A	A
Ethanolamine	B	C	B	B	A	B	B	C	A	B
Ethanoyl Chloride	X	-	X	X	C	X	C	B	A	-
Ether	X	C	X	B	C	B	X	X	A	C
Ethine	A	-	B	A	A	B	A	A	A	C
Ethocel	B	B	B	B	A	B	B	A	A	C
Ethoxyethane	X	A	C	B	C	C	X	X	A	X
Ethoxyethanol	X	-	C	C	A	B	A	B	A	-
Ethyl Acetate	X	X	X	X	B	X	B	X	A	B
Ethyl Acetic Acid	C	-	C	C	C	B	C	C	A	-
Ethyl Acetoacetate	C	C	X	X	B	X	B	X	A	B

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Ethyl Acrylate	X	-	X	X	C	X	B	X	A	B
Ethyl Alcohol	A	X	A	A	A	A	A	B	A	A
Ethyl Aldehyde	C	C	C	X	A	C	A	X	A	A
Ethyl Aluminum Dichloride	X	-	-	X	X	X	-	B	A	-
Ethyl Amine	B	-	X	X	A	C	A	X	A	-
Ethyl Benzene	X	X	X	X	X	X	X	A	A	X
Ethyl Benzoate	-	-	X	X	B	-	B	A	A	-
Ethyl Bromide	B	-	X	X	B	-	B	-	A	-
Ethyl Butanoate	X	-	X	X	X	-	-	-	A	-
Ethyl Butanol	A	-	-	A	A	A	-	B	A	-
Ethyl Butyl Acetate	X	-	-	X	A	B	-	X	A	-
Ethyl Butyl Alcohol	A	-	-	A	A	A	-	B	A	-
Ethyl Butyl Amine	B	-	-	B	A	C	-	-	A	-
Ethyl Butyl Ketone	X	-	-	X	B	X	-	X	A	-
Ethyl Butyraldehyde	X	-	-	X	B	X	-	X	A	-
Ethyl Butyrate	X	-	X	X	C	X	X	C	A	-
Ethyl Butyrate Ester	X	-	X	X	C	X	X	C	A	-
Ethyl Caprylate	X	-	X	X	X	-	X	-	A	-
Ethyl Caprylic Ester	X	-	X	X	X	-	X	-	A	-
Ethyl Cellosolve	X	-	C	C	A	B	A	B	A	-
Ethyl Cellulose	B	B	B	B	A	B	B	A	A	C
Ethyl Chloride	B	C	B	C	A	B	C	A	A	C
Ethyl Chlorocarbonate	X	-	C	-	-	C	-	A	A	-
Ethyl Chloroformate	X	-	C	-	-	C	-	A	A	-
Ethyl Cyanide	A	-	B	X	A	-	A	X	A	-
Ethyl Diacetate	B	-	X	X	B	-	-	-	A	-
Ethyl Dichloride	X	X	X	X	C	X	B	B	A	C
Ethyl Dimethyl Acetate	X	-	X	X	X	-	X	-	A	-
Ethyl Ether	X	C	X	B	C	B	X	X	A	C
Ethyl Formate	X	-	B	X	B	X	B	C	A	-
Ethyl Formic Ester	X	-	B	X	B	X	B	C	A	-
Ethyl Hexanol	X	-	X	C	A	B	A	B	A	-
Ethyl Hexoic Acid	C	-	-	C	C	B	-	-	A	-
Ethyl Hexyl Acetate	X	-	-	X	A	B	-	X	A	-
Ethyl Hexyl Alcohol	A	-	-	A	A	A	-	B	A	-
Ethyl Hexyl Phthalate	X	-	X	X	B	-	-	-	A	-
Ethyl Hydrate	A	X	A	A	A	A	A	B	A	A
Ethyl Hydroxide	A	-	B	B	A	-	-	-	A	-
Ethyl Iodide	X	-	X	X	C	X	C	B	A	-
Ethyl Isobutyl Ether	X	-	X	X	X	B	X	-	A	-
Ethyl Isobutyrate	X	-	X	X	X	-	X	-	A	-
Ethyl Mercaptan	X	-	X	X	X	X	X	B	A	-
Ethyl Methyl Carbinol	A	-	A	A	A	-	-	A	A	-
Ethyl Methyl Ketone	X	X	X	X	B	X	A	X	A	C
Ethyl Orthosilicate	C	-	A	A	A	A	A	A	A	-
Ethyl Oxalate	A	A	X	X	A	X	A	B	A	-
Ethyl Oxide	X	C	X	B	C	B	X	X	A	C
Ethyl Pentachlorobenzene	X	C	X	X	X	X	A	A	A	X
Ethyl Phthalate	X	-	-	X	A	X	-	C	A	-
Ethyl Propionate	X	-	X	X	X	-	X	-	A	-
Ethyl Propyl Ether	X	-	X	C	X	B	X	-	A	-
Ethyl Propyl Ketone	X	-	-	X	B	X	-	X	A	-
Ethyl Propyl Oxide	X	-	X	C	X	B	X	-	A	-
Ethyl Silicate	C	-	A	A	A	A	A	A	A	-
Ethyl Sulfate	X	-	-	X	B	X	-	X	A	-
Ethyl Sulfohydrate	X	-	X	X	X	X	X	B	A	-
Ethylene	-	-	-	B	-	A	C	A	A	-
Ethylene Alcohol	A	B	A	A	A	A	A	A	A	A
Ethylene Bromide	X	-	X	X	X	X	C	B	A	-
Ethylene Chloride	X	X	X	X	C	X	C	B	A	C
Ethylene Chlorohydrin	C	-	B	X	A	B	A	B	A	C
Ethylene Diamine	B	-	A	B	A	A	A	X	A	-
Ethylene Dibromide	X	-	X	X	X	X	C	B	A	-
Ethylene Dichloride	X	X	X	X	C	X	B	B	A	C
Ethylene Glycol	A	B	A	A	A	A	A	A	A	A

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED - - - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Ethylene Glycol Monobutyl Ether	X	-	C	B	A	B	A	C	A	-
Ethylene Glycol Monoethyl Ether	C	X	X	C	A	X	A	A	A	C
Ethylene Glycol Monomethyl Eth	X	-	A	C	A	B	B	X	A	-
Ethylene Monoacetate	C	X	X	C	A	X	A	A	A	C
Ethylene Oxide	-	C	X	X	X	X	X	C	A	C
Ethylene Trichloride	X	-	X	X	X	X	X	A	A	C
Ethylic Acid (See Acetic Acid)	-	-	-	-	-	-	-	-	A	-
Ethylic Alcohol	A	X	A	A	A	A	A	B	A	A
Ethylic Ether	X	A	C	B	C	C	X	X	A	X
Ethylidene Chloride	X	-	X	X	C	-	X	-	A	-
Ethylidene Dichloride	X	-	X	X	C	-	X	-	A	-
Ethylidene Perchloride	X	-	X	X	C	-	X	-	A	-
Ethyne	A	-	B	A	A	B	A	A	A	C
Exsiccated Llum	A	-	A	A	A	A	A	-	A	-
Ex-Tri	X	-	-	X	X	X	-	A	A	-
Exxon 2380 Turbo Oil	-	-	-	-	-	-	X	A	A	-
Fat Lime	A	-	A	A	A	A	A	-	A	-
Fatty Acids	C	-	C	B	C	C	X	A	A	C
Feran	B	-	B	B	B	-	-	-	A	-
Fermentation Amyl Alcohol	A	C	A	A	A	A	A	A	A	X
Ferric Acetate	X	-	-	X	A	A	-	X	A	-
Ferric Bromide	A	-	-	A	A	A	-	A	A	-
Ferric Chloride	A	A	A	A	A	A	A	A	A	A
Ferric Dichloride	A	A	A	A	A	A	A	A	A	A
Ferric Hydroxide	C	-	-	B	A	B	-	C	A	-
Ferric Nitrate	A	-	A	A	A	A	A	A	A	C
Ferric Perchloride	A	-	B	A	B	-	-	-	A	-
Ferric Persulfate	A	-	A	A	A	-	-	-	A	-
Ferric Salts	A	-	-	A	A	A	-	A	A	-
Ferric Sesquichloride	A	A	B	A	A	A	A	A	A	A
Ferric Sesquisulfate	A	A	A	A	A	A	A	A	A	B
Ferric Sub sulfate	A	A	A	A	A	A	A	A	A	B
Ferric Sulfate	A	-	A	A	A	A	A	A	A	B
Ferric Sulphate	A	-	A	A	A	A	A	A	A	B
Ferric Trichloride	A	A	B	A	A	A	A	A	A	A
Ferric Trisulfate	A	-	A	A	A	-	-	-	A	-
Ferri ferous Chloride	A	-	B	A	A	-	-	-	A	-
Ferri ferous Persulfate	A	-	A	A	A	-	-	-	A	-
Ferrous Acetate	X	-	-	X	A	A	-	X	A	-
Ferrou Ammonium Sulphate-30%	-	-	A	-	-	-	-	A	A	-
Ferrous Chloride	A	-	B	A	A	A	A	A	A	-
Ferrous Hydroxide	C	-	-	B	A	B	-	C	A	-
Ferrous Nitrate	A	-	A	A	A	-	-	-	A	-
Ferrous Sulfate	A	-	A	A	A	A	A	A	A	-
Ferrous Sulfide	A	-	-	A	A	A	-	A	A	-
Filter Alum	A	-	A	A	A	-	-	-	A	-
Firedamp	X	B	B	A	X	B	X	A	A	X
Firwood Oil	X	-	X	B	X	X	A	A	A	-
Fish Oil	-	-	-	A	-	-	-	A	A	A
Flaxseed Oil	X	B	B	A	A	B	B	A	A	X
Flores Martis	A	-	B	A	A	-	-	-	A	-
Fluoboric Acid	A	-	B	A	B	A	A	C	A	-
Fluorinated Cyclic Ethers	-	-	-	-	B	-	A	A	A	-
Fluorine (Liquid)	X	-	C	X	X	X	C	B	A	X
Fluorobenzene	X	-	X	X	X	X	X	A	A	X
Fluorocarbon Oils	-	-	-	-	A	-	A	-	A	-
Fluorochloroethylene	X	-	X	X	X	-	-	-	A	-
Fluorolube	X	-	A	C	C	A	A	B	A	B
Fluoromethane	X	-	X	X	B	-	A	-	A	-
Fluosilicic Acid	A	B	B	B	A	A	B	A	A	X
Formaldehyde	B	X	B	B	A	A	A	A	A	A
Formalin	B	X	B	B	A	A	A	A	A	A
Formamide (Formylamine)	A	-	A	A	A	-	A	X	A	-
Formic Acid (Formylic Acid)	C	X	B	C	A	A	B	C	A	B
Formic Aldehyde-40%	B	X	B	B	A	A	A	A	A	A

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Formonitrile	B	C	C	B	B	A	B	A	A	A
Fraud's Reagent-10%	A	-	A	X	B	A	B	A	A	X
Freon 11	X	X	B	A	X	A	X	A	A	X
Freon 12	X	A	B	B	C	C	B	B	A	X
Freon 13	A	-	A	A	A	A	A	A	A	-
Freon 13B1	A	A	A	A	A	A	A	A	A	X
Freon 14	X	-	X	X	B	X	B	-	A	-
Freon 21	X	-	X	X	X	X	X	X	A	X
Freon 22	X	X	B	X	B	A	C	X	A	X
Freon 31	B	-	A	X	A	B	A	X	A	-
Freon 32	A	-	A	A	A	A	A	C	A	-
Freon T-P 35	A	A	A	A	A	A	A	A	A	A
Freon 112	X	-	B	B	X	B	X	A	A	-
Freon 113	C	B	A	B	X	A	X	A	A	X
Freon 114	A	A	A	A	C	A	C	A	A	X
Freon 114B2	X	-	A	B	X	A	X	B	A	-
Freon 15	A	-	A	A	A	A	A	B	A	-
Freon 142B	A	-	A	A	A	A	A	X	A	-
Freon 152A	A	-	A	A	A	C	A	X	A	-
Freon 218	A	-	A	A	A	A	A	A	A	-
Freon C316	A	-	A	A	A	A	A	A	A	-
Freon C318	A	-	A	A	A	A	A	A	A	-
Freon 502	A	-	A	B	-	-	-	B	A	-
Freon T-WD602	C	A	B	B	A	B	B	A	A	X
Freon BF	X	-	B	B	X	B	-	-	A	-
Freon MF	X	C	C	A	X	X	-	-	A	-
Freon TA	A	A	A	A	A	A	A	C	A	A
Freon TC	X	A	A	A	A	A	B	A	A	X
Freon TF	C	A	A	A	X	A	X	A	A	X
Freon TMC	B	B	B	B	B	B	B	A	A	C
Fruit Juice	C	-	A	-	-	A	-	-	A	A
Fuel Oil	X	B	B	A	X	B	X	A	A	A
Fuels-ASTM Ref: Fuel A	X	A	A	A	X	X	X	A	A	-
Fuels-ASTM Ref: Fuel B	X	B	C	A	X	X	X	A	A	-
Fuels-ASTM Ref: Fuel C	-	C	C	-	X	C	X	A	A	-
Fuels-ASTM #1 Oil	X	A	B	A	X	B	X	A	A	-
Fuels-ASTM #2 Oil	X	-	B	A	X	-	-	-	A	-
Fuels-ASTM #3 Oil	X	B	B	A	X	C	X	A	A	-
Fumaric Acid	B	-	B	C	X	B	-	A	A	B
Fumazole Acid	A	A	A	A	A	A	A	A	A	A
Furaldehyde	X	X	C	X	A	B	A	X	A	C
Furan	X	-	X	X	X	X	X	C	A	-
Furfural (Furfurol)	X	X	C	X	A	C	A	X	A	C
Furfuraldehyde	X	X	C	X	A	C	A	X	A	C
Furfuran	X	-	X	X	X	X	X	C	A	-
Furfuryl Alcohol	-	-	-	-	C	-	-	X	A	-
Furol	X	X	C	X	A	C	A	X	A	C
Furylcarbinol	-	-	-	-	C	-	-	X	A	-
Fusel Oil	A	C	A	A	A	A	A	A	A	X
Fyrquel 220	-	-	-	-	-	-	-	A	A	-
Gallic Acid	A	X	C	X	B	B	B	A	A	-
Gallotannic Acid	A	A	A	C	B	A	B	A	A	B
Gasoline (Gasolene)	X	B	B	A	X	X	X	A	A	C
Gasoline-40% Aromatic	X	-	B	B	X	X	X	A	A	-
Gasoline-65 Octane	X	B	B	A	X	X	X	A	A	-
Gasoline- 100 Octane	X	-	B	A	X	X	X	A	A	-
Gaultheria Oil	X	-	X	X	B	-	C	B	A	-
Gelatin	A	A	A	A	A	A	A	A	A	A
Generator Gas	C	A	B	A	B	B	C	A	A	B
German Saltpeter	A	X	A	A	A	A	A	A	A	B
Gibbsite	A	-	A	B	A	B	A	C	A	-
Glacial Acetic Acid	C	C	C	C	B	C	B	C	A	B
Glauber's Salt	A	A	A	A	A	A	A	A	A	A
Gluconic Acid	X	-	-	C	C	B	-	-	A	-

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Glucose	A	A	A	A	A	A	A	A	A	A
Glue	B	A	A	A	B	A	B	A	A	A
Glycerin (Glycerine)	A	A	A	A	A	A	A	A	A	A
Glycerol	A	A	A	A	A	A	A	A	A	A
Glyceryl Hydroxide	A	A	A	A	A	A	A	A	A	A
Glyceryl Triacetate	B	X	A	A	A	B	A	C	A	--
Glyceryl Trioleate	X	--	C	B	B	--	--	A	--	--
Glycogenic Acid	X	--	--	C	C	B	--	--	A	--
Glycol	A	B	A	A	A	A	A	A	A	A
Glycol Acetate	C	X	X	C	A	X	A	A	A	C
Glycol Alcohol	A	--	B	B	A	--	--	--	A	--
Glycol Butyl Ether	X	--	C	B	A	B	A	C	A	--
Glycol Chlorohydrin	C	--	B	X	B	B	A	C	A	C
Glycol Dibromide	X	--	X	X	X	C	B	A	--	--
Glycol Dichloride	X	X	X	X	C	X	C	B	A	C
Glycol Ethyl Ether	X	--	C	C	A	B	A	B	A	--
Glycol Monoacetate	C	X	X	C	A	X	A	A	A	C
Graham's Salt	A	--	A	A	A	--	--	--	A	--
Grain Alcohol	A	X	A	A	A	A	A	B	A	A
Grain Oil	A	C	A	A	A	A	A	A	A	X
Grease	X	--	B	A	X	C	X	A	A	--
Green Copperas (Vitroil)	A	A	A	A	A	A	A	A	A	B
Green Liquor	A	A	A	A	A	A	A	A	A	A
Green Sulfate Liquor	A	A	A	A	A	A	A	A	A	A
Grey Acetate	B	--	B	B	A	A	A	X	A	--
Halite	A	A	A	A	A	A	A	A	A	A
Halowax Oil	X	--	X	X	X	X	X	A	A	X
Hartshorn	A	--	B	X	A	B	A	A	A	B
Heavy Benzine	X	--	B	A	X	X	X	A	A	A
Heapr Clacis	A	A	B	A	A	A	A	A	A	B
Heptachlor in Petroleum Solvent:	--	--	--	C	--	--	--	A	A	--
Heptanal	X	--	--	A	X	X	--	X	A	--
n-Heptane	X	B	A	A	X	B	X	A	A	--
Heptane Carboxylic Acid	X	--	--	C	C	B	--	--	A	--
Heptyl Aldehyde	X	--	--	A	X	X	--	A	A	--
Heptyl Carbinol	B	X	B	A	B	A	A	B	A	B
Heptyl Hydride	X	--	A	A	X	B	X	A	A	--
Hexachlorodiphenylmethane	X	--	X	X	X	--	--	--	A	--
Hexahydrobenzene	X	A	B	A	X	B	X	A	A	X
Hexahydrophenol	C	--	A	B	X	C	C	A	A	--
Hexahydropyridine	X	--	X	X	X	X	X	C	A	--
n-Hexaldehyde	X	B	A	X	A	X	B	C	A	B
Hexalin	C	--	A	B	X	C	C	A	A	--
Hexamethylene	X	B	X	B	X	X	X	A	A	X
Hexanaphthene	X	A	B	A	X	B	X	A	A	X
Hexane	X	B	B	A	X	B	X	A	A	--
n-Hexane	X	B	B	A	X	B	X	A	A	--
Hexanedioic Acid	A	--	X	B	X	--	--	--	A	--
Hexanol	A	X	B	A	B	A	B	B	A	B
Hexan-3-One	X	--	--	X	B	X	--	X	A	--
n-Hexene-1	X	A	B	A	X	B	X	A	A	X
Hexone (Hexon)	X	--	X	B	X	B	X	A	A	C
Hexyl Acetic Acid	C	--	--	C	C	B	--	--	A	--
Hexyl Alcohol	A	X	B	A	B	A	B	B	A	B
Hexyl Hydride	X	B	B	A	X	B	X	A	A	--
Hexyl Methyl Ketone	X	--	--	X	B	X	--	X	A	--
Hexylamine	C	--	--	C	B	C	--	X	A	--
Hexylene	X	A	B	A	X	B	X	A	A	X
Hexylene Glycol	A	--	A	A	A	C	A	A	A	--
Hi-Tri	X	--	--	X	X	X	--	A	A	--
Hydrargylite	A	--	A	B	A	B	A	C	A	--
Hydrargyrum	A	A	A	A	A	A	A	A	A	A
Hydrated Galyta	A	A	A	A	A	A	A	A	A	A
Hydrated Lime	A	A	A	A	A	B	A	A	A	A
Hydraulic Fluids (Pydrauls)	X	A	X	X	A	X	B	A	A	B

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Hydraulic Oil (Petroleum)	X	A	B	A	X	B	C	A	A	C
Hydrazine	--	X	C	B	A	B	A	C	A	C
Hydrazino Benzene	A	--	X	X	C	C	C	A	A	--
Hydrobromic Acid	B	X	C	X	A	A	A	A	A	X
Hydrobromic Acid Gas	B	--	X	X	A	--	--	--	A	--
Hydrocarbons-Alicyclic	X	B	X	B	X	X	X	A	A	X
Hydrocarbons-Aliphatic	X	B	B	A	X	B	X	A	A	X
Hydrocarbons-Aromatic	X	X	X	C	X	X	X	A	A	X
Hydrocarbons-Chlorinate	X	--	X	X	--	X	X	A	A	--
Hydrocarbons-Normal	X	--	B	A	X	B	X	A	A	--
Hydrocarbons-Olefinic	--	--	--	A	--	--	--	A	A	--
Hydrocarbons-Saturated	X	--	--	A	X	X	--	A	A	--
Hydrochloric Acid-10%,6.6BE	A	B	B	B	A	A	A	A	A	C
Hydrochloric Acid-20%	A	B	B	B	A	A	A	A	A	C
Hydrochloric Acid-25%,16.0BE	A	C	C	B	B	A	A	A	A	C
Hydrochloric Acid-38%, 30.1BE	A	C	C	C	B	A	B	A	A	C
Hydrochloric Acid-50%	A	--	X	X	C	B	C	A	A	C
Hydrochloric Acid-100%	B	--	X	X	C	B	C	C	A	X
Hydrochloric Ether	B	C	B	C	A	B	C	A	A	C
Hydrocyanic Acid	B	C	C	B	B	A	B	A	A	A
Hydrofluoric Acid	X	--	C	X	A	A	--	--	A	--
Hydrofluoric Acid-Anhydrous	X	C	C	X	C	A	C	A	A	X
Hydrofluoric Acid-10%	B	X	B	B	A	A	A	--	A	--
Hydrofluoric Acid-50%24.0BE	C	X	C	X	B	A	B	--	A	--
Hydrofluoric Acid-65%	C	--	C	X	B	A	B	X	A	--
Hydrofluoric Acid-75%, 30.1BE	X	--	X	X	C	B	C	X	A	--
Hydrofluoroboric Acid	A	--	--	--	--	--	--	--	A	--
Hydrofluosilicic Acid	A	B	B	B	A	A	B	A	A	X
Hydrogen Bromide	B	--	X	X	A	--	--	--	A	--
Hydrogen Carboxylic Acid	X	--	B	B	A	--	--	--	A	--
Hydrogen Cyanide	B	C	C	B	B	A	B	A	A	A
Hydrogen Dioxide-3%	B	--	B	B	B	B	B	A	A	A
Hydrogen Dioxide-10%	B	--	C	C	C	B	B	A	A	A
Hydrogen Dioxide-30%	C	--	X	C	C	C	B	A	A	A
Hydrogen Dioxide-90%	X	C	X	X	X	C	C	A	A	A
Hydrogen Gas	B	A	A	A	A	A	B	A	A	B
Hydrogen Oxide	A	A	C	A	A	A	A	A	A	A
Hydrogen Peroxide-3%	B	--	B	B	B	B	B	A	A	A
Hydrogen Peroxide-10%	B	--	C	C	C	B	B	A	A	A
Hydrogen Peroxide-30%	C	--	X	C	C	C	B	A	A	A
Hydrogen Peroxide-90%	X	C	X	X	X	C	C	A	A	B
Hydrogen Sulfide (Wet)(Cold)	C	B	B	C	A	A	A	A	A	B
Hydrogen Sulfide (Wet)(Hot)	C	--	C	X	A	C	A	B	A	C
Hydrogen Sulfide-Dry (Hot/Cold)	C	B	C	X	A	C	A	B	A	C
Hydroquinol	B	--	X	C	X	A	--	C	A	--
Hydroquinone	B	--	X	C	X	A	--	C	A	--
Hydroxipropene Tricarboxylic Acid	A	--	B	B	A	--	--	--	A	--
Hydroxyacetic Acid-10%	X	--	X	X	B	--	--	--	A	X
Hydroxybenzene	X	C	C	X	B	C	C	A	A	X
Hydroxybutane	A	X	A	A	A	A	A	A	A	B
Hydroxybutanedioic Acid	A	--	C	B	X	B	X	A	A	--
Hydroxyether	X	--	C	C	A	B	A	B	A	B
Hydroxyethyl Acetate	C	X	X	C	A	X	A	A	A	--
Hydroxyethyl Amine	B	C	B	B	A	B	B	C	A	--
Hydroxyformic Acid	A	A	A	A	A	A	A	A	A	A
Hydroxyoctane	B	--	A	A	B	A	X	B	A	--
Hydroxysuccinic Acid	A	--	C	B	X	B	X	A	A	B
Hykil #6, 33%,Water 67%	X	--	X	C	X	--	--	--	A	--
Hypnone	C	X	X	X	A	X	A	X	A	--
Hypo	A	A	A	A	A	A	A	A	A	A
Hypochlorous Acid	B	--	X	X	C	--	B	A	A	--
I.P.A.	B	--	B	B	B	--	--	--	A	--
Ice Spar (Stone)	--	--	A	B	A	--	A	A	A	--
Iodine (Iodum)	X	--	B	--	--	A	--	C	A	--
Iodine Pentafluoride	X	X	X	X	X	X	X	X	A	X

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Iodobutane	X	--	X	X	--	--	--	A	--	--
Iodoethane	X	--	X	X	C	X	C	B	A	--
Iodoform	--	--	--	--	A	--	A	--	A	--
Iodopentane	X	--	X	X	X	X	X	--	A	--
Iron Acetate	X	--	--	X	A	A	--	X	A	--
Iron Chloride	A	A	B	A	A	A	A	A	A	A
Iron Dichloride	A	A	B	A	A	A	A	A	A	A
Iron Hydroxide	C	--	--	B	A	B	--	C	A	--
Iron Monosulfide	A	--	--	A	A	A	--	A	A	--
Iron Nitrate	A	--	A	A	A	A	A	A	A	C
Iron Perchloride	A	--	B	A	A	--	--	--	A	--
Iron Persulfate	A	--	A	A	A	--	--	--	A	--
Iron Protochloride	A	A	B	A	A	A	A	A	A	A
Iron Salts	A	--	--	A	A	A	--	A	A	--
Iron Sesquichloride	A	A	B	A	A	A	A	A	A	A
Iron Sulfate	A	--	A	A	A	A	A	A	A	A
Iron Sulfide	A	--	--	A	A	A	--	A	A	--
Iron Susquisulfate	A	A	A	A	A	A	A	A	A	B
Iron Tersulfate	A	A	A	A	A	A	A	A	A	B
Iron Trichloride	A	A	B	A	A	A	A	A	A	A
Iron Vitrol	A	A	A	A	A	A	A	A	A	B
Isoamyl Acetate	X	X	X	X	B	C	B	X	A	X
Isoamyl Acetic Ester	C	X	X	X	B	C	B	X	A	X
Isoamyl Alcohol	A	C	A	A	A	A	A	A	A	X
Isoamyl Bromide	X	--	X	X	X	X	B	A	--	--
Isoamyl Butyrate	X	--	--	X	C	X	--	X	A	--
Isoamyl Chloride	X	--	X	X	C	X	X	A	A	--
Isoamyl Ether	X	--	X	C	X	C	X	--	A	--
Isoamyl Phthalate	X	--	--	X	A	X	--	C	A	--
Isobutane	X	--	--	A	X	X	--	A	A	--
Isobutanol	B	X	B	B	A	A	A	B	A	A
Isobutyl Acetate	X	--	X	X	B	C	C	X	A	--
Isobutyl Alcohol	B	X	B	B	A	A	A	B	A	A
Isobutyl Aldehyde	C	C	C	X	B	X	B	X	A	C
Isobutyl Amine	C	--	--	X	A	C	--	X	A	--
Isobutyl Bromide	X	--	--	X	X	X	--	B	A	--
Isobutyl n-Butyrate	--	--	X	--	--	--	--	C	A	--
Isobutyl Carbinol	A	C	A	A	A	A	A	A	A	X
Isobutyl Chloride	X	--	--	X	X	X	--	B	A	--
Isobutyl Ether	X	--	--	B	X	B	--	--	A	--
Isobutylene	X	--	--	C	X	X	--	A	A	--
Isobutyric Acid	A	--	B	X	A	--	A	--	A	--
Isododecane	X	B	A	B	C	A	X	A	A	--
Isooctane	X	B	B	A	X	B	X	A	A	X
Isopentane	X	--	--	A	X	X	--	A	A	--
Isophorone	X	B	X	X	A	--	C	X	A	--
Isopropanol	A	X	A	B	A	A	B	A	A	A
Isopropanol Amine	B	--	--	B	A	C	--	--	A	--
Isopropyl Acetate	X	A	X	X	B	X	B	X	A	--
Isopropyl Alcohol	A	X	A	B	A	A	B	A	A	A
Isopropyl Amine	B	--	--	X	B	C	--	X	A	--
Isopropyl Benzene	X	--	X	X	X	X	X	A	A	--
Isopropyl Carbinol	B	X	B	B	A	A	A	B	A	A
Isopropyl Chloride	X	X	X	X	X	X	X	B	A	C
Isopropyl Dienacetone	X	--	X	X	X	--	--	--	A	--
Isopropyl Ether	X	B	C	C	X	C	X	C	A	--
Isopropyl Methyl Benzenes	X	--	X	X	X	X	X	A	A	X
Isopropyl Toluene	X	--	X	X	X	X	X	A	A	X
Japanese Gelatin	A	--	B	B	A	--	--	--	A	--
Jet Fuels (JP1 to JP6)(A & A1)	X	C	C	A	X	C	X	A	A	X
Jew's Pitch	X	B	B	A	X	B	X	A	A	X
Kalilauge	B	B	B	C	A	A	B	C	A	A
Kalinite	A	--	A	A	A	A	A	A	A	A
Kandol	X	B	B	A	X	X	X	A	A	C
Kerosene (Kerosine)	X	C	B	A	X	C	X	A	A	X

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Keto Hexamethylene	X	--	X	X	C	X	B	X	A	--
Ketones:Aliphatic,Saturated	B	X	C	X	A	B	A	X	A	A
Ketones:Aliphatic,Unsaturated	X	X	X	X	B	X	A	X	A	C
Ketones:Aromatic	C	X	X	X	A	X	A	X	A	--
Ketopropane	X	--	X	X	A	--	--	--	A	--
Krystallin	X	C	C	X	A	C	B	A	A	B
Kurrol's Salt	A	--	A	A	A	--	--	--	A	--
Kyanol	X	C	C	X	A	C	B	A	A	B
Labarraque's Solution 20%	X	X	X	X	C	--	--	--	A	--
Lacquer Solvents	X	X	X	X	X	X	X	X	A	X
Lacquer Solvents (Synthetic)	X	--	X	X	X	X	--	X	A	--
Lacquers	X	X	X	X	C	X	X	X	A	X
Lacquers (Synthetic)	X	--	X	X	X	X	--	X	A	--
Lactic Acid (Cold)	C	B	B	C	B	A	B	A	A	A
Lactic Acid (Hot)	C	--	C	C	C	B	C	C	A	--
Lactol	X	--	X	C	X	B	--	A	A	--
Lard	X	A	B	A	X	C	C	A	A	B
Laughing Gas	A	--	--	A	A	A	--	A	A	--
Lquryl Alcohol	A	--	--	A	A	A	--	B	A	--
Lavender Oil	X	--	C	B	X	--	C	B	A	--
Layor Caranga	A	--	B	B	A	--	--	--	A	--
Lead Acetate	B	--	A	B	A	A	X	A	A	X
Lead Chloride	B	--	B	--	--	A	--	--	A	--
Lead Nitrate	B	--	B	B	A	A	A	A	A	B
Lead Styphnate	B	--	A	B	A	--	--	--	A	--
Lead Sulfamate	B	--	A	B	A	A	A	A	A	B
Lead Sulfate	A	--	A	B	A	A	A	A	A	--
Lead Tetraethyl	X	--	X	B	X	X	X	A	A	--
Lead Trinitro Resorcincol	B	--	A	B	A	--	--	--	A	--
Leucogen	A	--	A	A	A	A	A	A	A	A
Lichenic Acid	C	--	--	X	--	--	--	--	A	--
Light Aniline	X	C	C	X	A	C	B	A	A	B
Ligroin (Ligroine)	X	--	B	A	X	X	X	A	A	A
Lime	A	--	A	A	A	A	A	--	A	--
Lime, Agricultural	A	A	A	A	A	B	A	A	A	A
Lime, Caustic	A	A	A	A	A	B	A	A	A	A
Lime, Soda	A	C	B	B	A	B	A	B	A	C
Lime and Water	A	A	A	A	A	B	A	A	A	A
Lime Acetate	C	--	X	B	A	--	--	--	A	--
Lime Bisulfite	C	A	A	A	B	A	C	A	A	C
Lime Bleach	B	--	B	A	A	B	A	A	A	B
Lime Hydrate	A	A	A	A	A	B	A	A	A	A
Lime Nitrate	A	A	A	A	A	A	A	A	A	B
Lime Salteter	A	A	A	A	A	A	A	A	A	B
Lime Sulfur-Dry	X	--	A	X	C	B	C	A	A	A
Lime Sulfur-Wet	B	--	A	A	C	B	C	A	A	--
Limestone	A	--	A	A	A	A	A	A	A	--
Limonene	X	--	X	C	X	X	X	A	A	--
Lindol	C	C	C	X	A	C	A	B	A	C
Linolil	X	--	X	X	X	--	--	--	A	--
Linoleic Acid (Linolenic Acid)	X	--	X	B	X	C	X	A	A	B
Linolic Acid	X	--	X	B	X	C	X	A	A	B
Linseed Oil	X	B	B	A	A	B	B	A	A	X
Liquefied Petroleum Gas	X	A	B	A	X	B	X	A	A	C
Liquid Oxygen	X	--	X	X	X	--	--	--	A	--
Liquid Rosin (Retinol)	X	--	A	A	X	B	--	A	A	--
Liquid Soap	A	--	A	A	A	A	A	A	A	--
Luboil-Lube Oils	X	B	B	A	X	C	X	A	A	C
Lubricating Oils (crude & refined)	X	B	B	A	X	C	X	A	A	B
Lye	B	C	B	C	A	B	B	B	A	B
Lysol	A	--	B	B	A	--	--	--	A	--
Macassar Gum (Oil)	A	--	B	B	A	--	--	--	A	--
Maddrell's Salt	A	A	B	B	A	A	A	A	A	C
Magnesium Acetate	X	--	--	X	A	A	--	X	A	--
Magnesium Ammonium Sulfate	--	--	A	--	--	--	--	--	A	--

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Magnesium Bisulfite	B	--	B	B	A	--	--	A	A	--
Magnesium Carbonate	A	--	A	A	A	A	C	A	A	--
Magnesium Chloride	A	A	A	A	A	A	A	A	A	A
Magnesium Hydrate	A	A	B	B	A	A	A	B	A	B
Magnesium Hydroxide	A	A	B	B	A	A	A	A	A	B
Magnesium Nitrate	A	--	A	A	A	A	A	A	A	--
Magnesium Oxide	--	--	A	--	--	--	--	A	A	--
Magnesium Sulfate	A	--	A	A	A	A	A	A	A	A
Maize Oil	X	A	B	A	A	B	A	A	A	A
Maleic Acid	B	--	A	X	C	C	C	A	A	--
Maleic Anhydride	B	--	--	--	C	--	C	A	A	--
Maleinic Acid-25%	C	--	X	X	X	--	--	--	A	--
Malic Acid	A	--	C	B	X	B	X	A	A	B
Malonyl Nitrite	A	--	A	A	A	--	A	--	A	--
Malt Salt	B	--	B	B	A	--	--	--	A	--
Manganese Sulfate	B	--	A	A	A	A	--	A	A	--
Manganese Sulfide	C	--	--	A	A	A	--	A	A	--
Manganese Sulfite	C	--	--	A	A	A	--	A	A	--
Maple Sugar Liquors	A	X	A	A	A	A	A	A	A	A
Marsh Gas	X	B	B	A	X	B	X	A	A	X
Master Kill Emulsion	--	--	A	A	A	--	--	C	A	--
M.E.A.	C	--	C	C	B	--	--	--	A	--
M.E.K.	X	X	X	X	B	X	A	X	A	C
Mercuric Chloride	B	--	B	A	A	A	A	A	A	A
Mercuric Cyanide	A	--	B	B	A	A	A	A	A	--
Mercurous Nitrate	A	--	B	B	A	A	A	A	A	--
Mercury	A	A	A	A	A	A	A	A	A	A
Mercury Bichloride	B	--	B	A	A	A	A	A	A	A
Mercury Chloride	B	--	B	A	A	A	A	A	A	A
Mercury Vapor	X	--	X	X	X	--	--	--	A	--
Mesityl Oxide	X	--	X	X	C	X	B	X	A	X
Methadiene	X	--	X	C	X	X	X	A	A	--
Methallyl Alcohol	A	--	--	A	A	A	--	B	A	--
Methanal-40%	B	X	B	B	A	A	A	A	A	A
Methanamide	A	--	A	A	A	--	A	X	A	--
Methane	X	B	B	A	X	B	X	A	A	X
Methanol	A	X	A	A	A	A	B	C	A	A
Methyl Acetate	X	--	C	X	B	B	A	X	A	C
Methyl Acetoacetate	X	--	--	X	B	X	--	X	A	--
Methyl Acetone	C	--	--	X	B	X	--	X	A	--
Methyl Acrylate	X	--	C	X	C	--	B	X	A	--
Methyl Acrylic Acid	X	--	B	--	B	--	B	B	A	--
Methyl Alcohol	A	X	A	A	A	A	A	B	A	A
Methyl Alcohol-Wood	A	--	A	A	A	A	--	X	A	--
Methyl Amine	A	--	A	B	A	X	A	--	A	--
Methyl Amyl Acetate	X	--	X	X	C	B	X	X	A	--
Methyl Amyl Alcohol	A	--	--	A	A	A	--	X	A	--
Methyl Amyl Carbinol	A	--	--	A	A	A	--	B	A	--
Methyl Amyl Ketone	X	--	--	X	B	X	--	X	A	--
Methyl Aniline	A	--	A	A	A	--	A	--	A	--
Methyl Benzene	X	X	X	C	X	X	X	A	A	X
Methyl Bichloride	X	X	X	X	X	X	C	B	A	--
Methyl Bromide	C	--	X	C	B	X	A	A	A	--
Methyl Butanol	A	--	A	A	A	A	--	B	A	--
Methyl Butonone	X	--	--	X	B	X	--	X	A	--
Methyl Butyl Ketone	X	--	X	X	B	X	B	X	A	B
Methyl Butyrate	X	--	X	X	X	--	X	--	A	--
Methyl Carbitol	X	--	--	C	A	A	--	--	A	--
Methyl Cellosolve	X	--	A	C	A	B	B	X	A	--
Methyl Chloride	X	--	X	X	C	X	C	B	A	X
Methyl Cyanide	B	--	A	C	A	B	A	X	A	--
Methyl Cyclohexane	X	--	--	X	X	X	--	B	A	--
Methyl Cyclopentane	X	--	C	B	X	X	X	A	A	--
Methyl Ether	X	--	--	A	C	B	--	--	A	--
Methyl Ethyl Ketone	X	X	X	X	B	X	A	X	A	C

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Methyl Formate	X	--	B	X	B	C	A	X	A	B
Methyl Hexane	X	--	A	A	X	B	X	A	A	--
Methyl Hexanol	A	--	--	A	A	A	--	B	A	--
Methyl Hexanone	X	--	--	X	B	X	--	X	A	--
Methyl Hexyl Carbinol	X	--	X	B	X	--	--	--	A	--
Methyl Hexyl Ketone	X	--	--	X	B	X	--	X	A	--
Methyl Hydrate	A	X	A	A	A	A	B	C	A	A
Methyl Hydride	X	B	B	A	X	B	X	A	A	X
Methyl Hydroxide	A	X	A	A	A	A	B	C	A	A
Methyl Iodide	A	--	X	X	A	--	A	--	A	--
Methyl Isobutyl Carbinol	B	--	A	B	A	A	A	C	A	--
Methyl Isobutyl Ketone	X	--	X	X	B	X	B	X	A	C
Methyl Isopropyl Ketone	X	--	X	X	B	X	C	X	A	C
Methyl Methacrylate	X	--	X	X	C	A	C	X	A	C
Methyl Methane	X	B	B	A	X	B	X	A	A	X
Methyl Normal Amyl Ketone	X	--	--	X	B	X	--	X	A	--
Methyl Oleate	X	--	X	X	B	--	C	B	A	--
Methyl Phenol	X	X	X	C	X	B	X	A	A	C
Methyl Polysiloxanes	X	--	X	A	X	--	--	--	A	--
Methyl Propanol	A	X	A	A	A	A	A	A	A	B
Methyl Propyl Benzene	X	--	X	X	X	--	--	--	A	--
Methyl Propyl Carbinol	A	--	--	A	A	A	--	B	A	--
Methyl Propyl Ether	X	--	--	X	X	B	--	--	A	--
Methyl Propyl Ketone	X	--	X	X	B	X	B	X	A	--
Methyl Salicylate	X	--	X	X	B	--	C	B	A	--
Methylacetate	B	X	C	X	A	B	A	X	A	A
Methylacrylic Acid	X	--	B	--	B	--	B	B	A	--
Methylallyl Acetate	X	--	--	X	A	B	--	X	A	--
Methylallyl Chloride	X	--	--	X	C	X	--	C	A	--
Methylated Spirits	A	X	B	A	A	A	A	B	A	A
Methylene Bromide	X	--	X	X	X	X	--	B	A	--
Methylene Chloride	X	X	X	X	X	X	C	B	A	--
Methylene Chlorobromide	X	--	X	X	X	--	--	--	A	--
Methylene Dichloride	X	--	X	X	X	--	--	--	A	--
M.I.B.K.	X	X	X	X	B	X	B	X	A	C
Milk (Whole)	B	X	A	B	A	A	A	A	A	A
Milk Acid-50%	C	B	B	C	B	A	B	A	A	A
Milk of Magnesia	A	A	B	B	A	A	A	A	A	B
Mineral Naphtha	X	C	C	A	X	C	X	A	A	C
Mineral Oil	X	A	B	A	X	B	X	A	A	A
Mineral Pitch	X	B	B	A	X	B	X	A	A	X
Mineral Spirits	X	--	C	A	X	B	X	A	A	--
Mineral Thinner	X	--	X	X	X	--	--	--	A	--
Mirabilite	A	A	A	A	A	A	A	A	A	A
Mittel H.N.A.	C	X	X	X	A	X	A	X	A	--
Mobil XRM 206A	--	--	--	--	--	--	--	A	A	--
Molasses	A	X	A	A	A	A	A	A	A	A
Molten Sulfur	B	B	A	B	B	A	A	A	A	B
Molysite	A	A	B	A	A	A	A	A	A	A
Monoammonium Phosphate	A	--	A	A	A	A	A	A	A	A
Monobromobenzene	X	--	X	X	X	X	--	A	A	X
Monobromo Trifluoromethane	X	--	X	X	X	--	--	--	A	--
Monobutyl Ether	X	--	--	C	C	X	--	X	A	--
Monochlorethane	B	C	B	C	A	B	C	A	A	C
Monochloroacetic Acid	B	--	X	X	B	X	--	--	A	--
Monochloroacetone	X	--	C	X	C	B	X	B	A	--
Monochlorobenzene	X	--	X	X	X	X	A	A	A	X
Monochlorodifluoromethane	X	--	X	X	C	X	--	X	A	--
Monochlorophenol	X	--	X	X	X	X	X	B	A	--
Monochlorotrifluoromethane	X	--	X	X	X	--	--	--	A	--
Monoethanolamine	B	C	C	B	A	B	B	C	A	B
Monoethyl Amine	C	--	--	C	B	C	--	X	A	--
Monoisopropanol Amine	B	--	--	B	A	C	--	--	A	--
Monomethyl Amine	X	--	X	X	X	X	X	C	A	--

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Monomethyl Aniline	X	--	X	X	X	X	X	C	A	--
Monomethyl Ether	C	--	B	A	A	--	A	A	A	--
Monosodium Acid Methanearsenic	--	--	A	--	A	--	--	--	A	--
Monovinyl Acetate	X	--	X	X	--	--	--	--	A	--
Monovinyl Acetylene	B	--	B	A	A	B	A	A	A	B
Monsell's Salt	A	A	A	A	A	A	A	A	A	B
Morea Premic	A	--	--	--	A	--	--	--	A	--
Morrhua Oil	X	A	B	B	A	B	A	A	A	B
Mosaic Gold	A	--	--	A	A	--	--	--	A	--
Motor Spirits	X	B	B	B	X	B	X	A	A	X
Muriate of Ammonia	A	A	A	A	A	A	A	A	A	B
Muriatic Acid	A	--	X	X	C	B	C	A	A	--
Mustard Gas	A	--	A	--	A	A	A	A	A	A
Muthmann's Liquid	X	--	X	X	X	--	--	--	A	--
Naphtha	X	C	C	A	X	C	X	A	A	C
Naphtha-Coal Tar	X	X	X	X	X	X	X	A	A	X
Naphthalene (Naphthaline)	X	B	X	X	X	X	X	A	A	X
Naphthenic Acid	X	--	--	B	X	--	X	A	A	--
Naphthylbenzene	X	--	X	X	X	--	--	--	A	--
Natural Gas	C	B	A	A	C	A	C	A	A	B
Havee	--	--	--	C	--	--	--	--	A	--
Neet's Foot Oil	X	--	--	A	B	--	B	A	A	B
Neohexane	X	--	--	A	X	X	--	A	A	--
Neosol	A	--	A	A	A	--	--	C	A	--
Neu-Tri	X	--	--	X	X	X	--	A	A	--
Neville Acid	X	--	C	C	B	--	B	A	A	--
Nevoll	X	--	C	C	A	--	--	B	A	--
Nickel Acetate	A	--	B	B	A	A	A	A	A	--
Nickel Ammonium Sulphate	--	--	A	--	--	--	--	A	A	--
Nichel Chloride	A	--	A	A	A	A	A	A	A	A
Nickel Nitrate	A	--	A	A	A	A	A	A	A	--
Nickel Salts	A	--	A	A	A	--	--	--	A	--
Nickel Sulfate	A	A	A	A	A	A	A	A	A	A
Nickelous Sulfate	A	A	A	A	A	A	A	A	A	A
Nicotine Bentonite	A	--	A	A	A	--	--	C	A	--
Nicotine Sulfate	A	--	A	A	A	--	--	C	A	--
Niter-Potassium Nitrate	A	A	A	A	A	A	A	A	A	A
Niter-Sodium Nitrate	B	--	B	C	A	A	A	A	A	C
Niter Cake	A	--	A	A	A	A	A	A	A	A
Nitran 2&3	B	--	B	B	B	--	--	C	A	--
Nitrate	B	--	B	C	A	A	A	A	A	C
Nitric Acid-10%,7.5 BE	X	C	B	X	A	A	B	A	A	B
Nitric Acid-25%	X	C	C	X	B	A	B	A	A	C
Nitric Acid-35%,26.0 BE	X	C	X	X	C	A	C	A	A	C
Nitric Acid-50%	X	C	X	X	C	B	X	A	A	X
Nitric Acid-69%,42.1 BE	X	X	X	X	X	B	X	B	A	X
Nitric Acid-86%,46.5 BE	X	X	X	X	X	X	X	B	A	X
Nitric Acid-Concentrated	X	X	X	X	X	B	X	B	A	X
Nitric Acid-Crude	X	--	X	X	C	C	--	A	A	X
Nitric Acid-Dilute	X	C	B	X	A	A	A	A	A	B
Nitric Acid-Red Fuming	X	X	X	X	X	X	X	B	A	X
Nitrobenzene	X	X	X	X	C	X	C	A	A	C
Nitrobenzine	--	--	X	--	C	X	C	A	A	--
Nitrocalcite	A	X	A	A	A	A	A	A	A	B
Nitrocarbol	A	--	C	X	A	C	A	C	A	C
Nitroethane	B	--	C	X	B	B	B	C	A	C
Nitrogen	A	A	A	A	A	A	A	A	A	A
Nitrogen Fertilizer Solution	A	--	B	B	B	--	--	--	A	--
Nitrogen Tetroxide	X	--	X	X	B	X	C	C	A	C
Nitrohydrochloric Acid	X	--	X	X	C	B	C	A	A	C
Nitromethane	A	--	C	X	A	C	A	C	A	C
Nitromuriatic Acid	X	--	X	X	C	B	C	A	A	C
1-Nitropropane	C	--	C	X	B	--	A	C	A	C
Nitrous Monoxide	A	--	--	A	A	A	--	A	A	--
Nitrous Oxide	A	--	--	A	A	A	--	A	A	--

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Nitroxanthic Acid	C	B	C	C	C	A	B	A	A	X
Nonanoic Acid	X	--	--	A	A	X	--	--	A	--
Nonenes	X	--	--	A	X	X	--	A	A	--
Norge Niter	A	X	A	A	A	A	A	A	A	B
Norge Saltpeter	A	X	A	A	A	A	A	A	A	B
Norway Saltpeter	A	X	A	A	A	A	A	A	A	B
Norwegian Saltpeter	A	X	A	A	A	A	A	A	A	B
N.P.N.	--	--	--	--	B	--	--	--	A	--
Oakite Alkaline Materials	A	--	A	B	A	--	--	--	A	--
Oakite-O.C. 31&32	C	--	C	--	--	--	--	--	A	--
Oakite-O.C. 33&34	X	--	X	--	--	--	--	--	A	--
Oakite-O.C. 36,84H, 84M	C	--	C	--	--	--	--	--	A	--
Oakite-O.C. 85	X	--	X	--	--	--	--	--	A	--
Oakite-O.C. 88	X	--	C	--	--	--	--	--	A	--
Oakite-O.C. 131	C	--	C	--	--	--	--	--	A	--
Oakite-Crysoat FH Rinse	X	--	X	--	--	--	--	--	A	--
Oakite-0 Drycid & O.F.M. 184	C	--	C	--	--	--	--	--	A	--
Oakite-0 Stripper S.A.	X	--	X	--	--	--	--	--	A	--
Oakite Solvent Materials	X	--	X	X	X	--	--	--	A	--
Octachlorotoluene	X	X	X	X	X	X	X	A	A	X
Octadecane	X	A	B	A	X	B	X	A	A	X
Octadecanoic Acid	X	A	B	A	B	C	B	B	A	B
Octadecatrienoic Acid	X	--	X	C	B	--	--	--	A	--
Octafluorocyclobutane	X	--	X	X	X	--	--	--	A	--
Octane	X	--	--	A	X	X	--	A	A	--
n-Octane	X	--	--	A	X	X	X	A	A	X
Octanol	B	--	A	A	B	B	X	B	A	--
2-Octanone	X	--	--	X	B	X	--	X	A	--
n-Octene-2	--	--	C	--	--	--	--	--	A	--
Octoic Acid	C	--	--	C	C	B	--	--	A	--
Octyl Acetate	X	--	--	X	A	A	--	X	A	--
Octyl Alcohol	B	X	B	A	B	A	A	B	A	B
n-Octyl Alcohol	B	--	A	A	B	A	X	B	A	--
Octyl Aldehyde	X	--	--	X	C	X	--	X	A	--
Octyl Amine	C	--	--	C	A	C	--	X	A	--
Octyl Carbinol	A	--	--	A	A	A	--	B	A	--
Octylene Glycol	A	--	--	A	A	A	--	A	A	--
Octylic Acid	C	--	--	C	C	B	--	--	A	--
Octylic Alcohol	B	X	B	A	B	A	A	B	A	B
Oil of Acetone	B	X	C	X	A	B	A	X	A	A
Oil of Bitter Almonds (Artificial)	X	X	X	X	C	X	C	A	A	C
Oil of Hartshorn	X	--	--	A	B	X	--	A	A	--
Oil of Mirbane	X	X	X	X	C	X	C	A	A	C
Oil of Palma Christi	B	A	A	A	A	A	B	A	A	A
Oil of Turpentine	X	X	C	A	X	X	X	A	A	C
Oil of Vitriol	X	--	X	X	X	C	C	A	A	X
Okonite	A	--	--	A	A	A	--	A	A	--
Olefiat Gas	--	--	--	A	--	A	C	A	A	--
Oleic Acid	X	B	C	A	B	B	B	A	A	X
Olein	X	--	C	B	B	--	--	--	A	--
Oleum	X	X	X	X	X	C	X	B	A	X
Oleum Lini	X	B	B	A	A	B	B	A	A	X
Oleum Spirits	X	C	X	C	X	C	C	A	A	X
Olive Oil	X	A	B	A	B	B	A	A	A	A
Orthoboric Acid	A	A	A	A	A	A	A	A	A	A
Orthodichlorobenzene	X	--	X	X	X	X	--	A	A	--
Orthodichlorobenzol	X	--	--	X	X	X	--	A	A	--
Ortho-Hydroxybenzoic Acid	C	--	X	X	C	--	--	--	A	--
Orthoxylene	X	--	--	X	X	X	A	A	A	--
Oxalic Acid	B	--	B	C	A	B	A	C	A	B
Oxyethylene Succinic Acid	A	--	C	B	X	B	X	A	A	B
Oxygen-Cold	B	A	A	C	A	A	B	A	A	A
Oxygen- 250-400 deg.F	X	X	X	X	X	X	X	B	A	B
Oxymethelene-40%	C	--	C	C	B	--	--	--	A	--
Oxymuriate of Tin	A	B	A	A	B	A	B	A	A	B

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Ozone	X	A	B	X	A	A	A	A	A	A
Paint Thinner Duco	X	X	C	A	X	X	X	B	A	C
Painter's Naphtha	X	--	X	X	X	--	--	A	A	--
Palm Oil	X	--	C	A	B	B	--	A	A	--
Palmitic Acid	C	A	B	A	B	B	B	A	A	C
Paper Makers Alum.	A	--	A	A	A	A	--	A	A	--
Para San 10%	A	--	A	B	A	A	--	C	A	--
Paradichlorobenzene	X	--	X	X	X	X	X	A	A	--
Paradichlorobenzene	X	--	X	X	X	X	X	A	A	--
Paradichlorobenzol	X	--	X	X	X	X	X	A	A	--
Paradihydroxybenzene	C	--	X	X	X	--	--	A	A	--
Paraffins	X	--	--	A	X	X	X	A	A	--
Paraform	X	--	B	B	B	--	--	C	A	--
Paraformaldehyde	X	--	B	B	B	--	--	C	A	--
Paraldehyde	C	--	B	C	A	X	A	X	A	--
Paraxylene	X	C	X	C	X	X	X	A	A	X
Paris Green & Lime 37%	--	--	A	A	A	B	--	A	A	--
Patent Alum	A	--	A	A	A	A	A	A	A	A
Peanut Oil	X	B	B	A	C	B	C	A	A	A
Pear Alum	A	--	A	A	A	--	--	A	A	--
Pear Oil	C	X	X	X	B	C	B	X	A	X
Pearl Ash	A	--	A	A	A	A	A	A	A	--
Pelargonic Acid	X	--	--	A	A	X	--	A	A	--
Pentachlorodiphenyl	X	--	X	X	X	--	--	A	A	--
Pentachlorodiphenyl Oxide	X	--	X	X	X	--	--	A	A	--
Pentachloroethane	X	--	X	X	X	X	--	A	A	--
Pentachloroethylbenzene	X	--	X	X	X	--	--	A	A	--
Pentachlorophenol	X	--	X	X	A	--	X	A	A	--
Pentachlorophenylbenzoate	X	--	X	X	X	--	--	A	A	--
Pentachlorodiphenyl Ketone	X	--	X	X	X	--	--	A	A	--
Pentahydroxy Hexoic Acid	X	--	--	C	C	B	--	--	A	--
Pentamethylene Amine	X	--	X	X	X	X	X	C	A	--
Pentane	X	--	B	A	X	C	X	A	A	--
n-Pentane, 2 Methyl, 3 Methyl	--	--	A	--	--	--	--	A	A	--
2,4-Pentane Dione	C	B	X	X	B	X	A	X	A	--
Pentanoic Acid	A	--	X	X	A	--	A	--	A	--
Pentanol	A	C	A	A	A	A	A	A	A	X
Pentanone	X	--	X	X	B	X	B	X	A	--
Pentasol	A	--	A	A	A	A	--	A	A	--
Pentasodium Triphosphate	X	--	X	X	--	--	--	A	A	--
Pentene	X	--	A	B	X	X	X	A	A	--
Pentene-2, 4-Methyl	--	--	B	--	--	--	--	A	A	--
Pentyl Amine	C	--	X	C	B	C	X	X	A	--
Pentyloxy-pentane	X	--	X	C	X	C	X	--	A	--
Perchloric Acid	A	--	A	X	B	A	B	A	A	X
Perchloroethylene	X	X	X	X	X	X	X	A	A	C
Perchloromethane	X	--	X	X	X	--	--	A	A	--
Permachlor	--	--	--	X	--	--	X	C	A	--
Peroxide-3%	B	--	B	B	B	B	B	A	A	A
Peroxide-10%	B	--	C	C	C	B	B	A	A	A
Peroxide-30%	C	--	X	C	C	C	B	A	A	A
Peroxide-90%	X	C	X	X	X	C	C	A	A	A
Peroxydol	B	--	B	B	A	A	A	A	A	B
Peroxyhydrate	A	--	A	A	A	--	--	A	A	--
Peru Salt-peter	B	--	B	C	A	A	A	A	A	C
Petrol	X	B	B	A	X	X	X	A	A	C
Petrolene	X	B	B	A	X	B	X	A	A	X
Petroleum-Below 250 F	X	B	B	A	X	C	X	A	A	B
Petroleum-Above 250 F	X	X	X	C	X	X	X	B	A	X
Petroleum-Crude	X	B	C	A	X	X	X	A	A	C
Petroleum Ether	X	B	B	A	X	X	X	A	A	C
Petroleum Naphtha	X	--	B	A	X	X	X	A	A	A
Petroleum Oils	X	--	B	A	X	X	--	A	A	--
Petroleum Pitch	X	B	B	A	X	B	X	A	A	X
Petroleum Spirit	X	--	B	A	X	X	X	A	A	A

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Petroleum Thinner	X	--	X	X	X	--	--	A	A	--
Phene	X	X	X	X	X	X	X	A	A	X
Phenetole (Phenetol)	X	--	X	X	X	X	X	C	A	--
Phenic Acid	X	C	C	X	B	C	C	A	A	X
Phenmethylol	C	--	C	X	A	B	C	A	A	--
Phenol	X	C	C	X	B	C	C	A	A	X
Phenol Polysiloxane	X	--	X	A	X	--	--	A	A	--
Phenol Sulfonic Acid	X	--	--	X	C	X	--	X	A	--
Phenol Trinitrate	X	--	X	X	X	--	--	A	A	--
Phenolates	X	--	X	X	--	X	--	B	A	--
Phenols	A	--	B	X	--	B	--	B	A	--
Phenoxide	X	--	X	X	--	--	--	B	A	--
Phenoxin	X	C	X	C	X	X	X	A	A	X
Phenoxybenzene	X	--	X	X	X	C	X	A	A	C
Phenyl Acetate	C	X	X	X	B	C	B	X	A	X
Phenyl Aldehyde	X	X	X	X	B	X	B	X	A	C
Phenyl Amine	X	C	C	X	A	C	B	A	A	B
Phenyl Benzene	X	--	X	X	X	X	X	A	A	C
Phenyl Bromide	X	X	X	X	X	X	X	B	A	X
Phenyl Carbinol	C	--	C	X	A	B	C	A	A	--
Phenyl Chloride	X	X	X	X	X	X	X	A	A	X
Phenyl Ethane	X	X	X	X	X	X	X	A	A	X
Phenyl Ether	X	--	X	X	X	C	X	A	A	C
Phenyl Ethyl Ether	X	--	X	X	X	X	X	C	A	--
Phenyl Formic Acid	B	--	A	X	A	B	B	A	A	B
Phenyl Hydrazine	A	--	X	X	C	C	C	A	A	--
Phenyl Hydride	X	X	X	X	X	X	X	A	A	X
Phenyl Hydroxide	X	C	C	X	B	C	C	A	A	X
Phenyl Methane	X	X	X	C	X	X	X	A	A	X
Phenyl Methyl Ketone	C	X	X	X	A	X	A	X	A	--
Phenylic Acid	X	C	C	X	B	C	C	A	A	X
Phorone	X	--	X	X	B	X	C	A	A	A
Phosphate Esters	X	--	X	X	A	X	C	A	A	A
Phospholeum	X	--	X	--	A	--	--	A	A	--
Phosphoric Acid-10%	A	A	B	A	A	A	A	A	A	C
Phosphoric Acid-20%	B	A	B	C	A	A	A	A	A	C
Phosphoric Acid-50%	C	A	B	X	B	A	B	A	A	C
Phosphoric Acid-85%	C	C	B	X	B	B	B	A	A	X
Phosphoric Acid-Concentrated	C	C	B	X	B	B	B	A	A	X
Phosphoric Acid-Crude	C	--	C	C	C	A	C	A	A	C
Phosphorous Oxychloride	X	--	X	--	X	X	--	--	A	--
Phosphorous Trichloride Acid	X	--	X	X	X	X	A	A	A	--
Photogen	X	C	C	A	X	C	X	A	A	C
Pickle Alum	A	A	A	A	A	A	A	A	A	A
Pickling Solution	C	C	C	--	C	A	C	B	A	--
Picric Acid (Molten)	C	B	C	C	C	A	C	A	A	X
Picric Acid, Water Solution	A	B	B	B	A	A	B	A	A	A
Picronitric Acid	C	B	C	C	C	A	B	A	A	X
Pimelic Ketone	X	--	X	X	X	--	--	A	A	--
Pinacol (Pinacolin)	A	--	A	A	A	A	C	A	A	--
Pine Oil	X	--	X	B	X	X	X	A	A	--
Pinene	X	B	X	B	X	X	X	A	A	X
Piperidine	X	--	X	X	X	X	X	C	A	--
Pitch	X	B	B	A	X	B	X	A	A	X
Plating Solution-Antimony	B	--	--	--	A	--	--	--	A	--
Plating Solution-Arsenic	B	--	--	--	--	--	--	--	A	--
Plating Solution-Brass	B	--	--	--	A	--	--	--	A	--
Plating Solution-Cadmium	A	--	B	B	A	--	--	--	A	--
Plating Solution-Chrome	X	--	X	X	A	C	A	A	A	C
Plating Solution-Copper	B	--	--	--	A	--	--	--	A	--
Plating Solution-Gold	B	--	--	--	A	--	--	--	A	--
Plating Solution-Iron	B	--	--	A	--	--	--	--	A	--
Plating Solution-Lead	A	--	B	B	A	--	--	--	A	--
Plating Solution-Nickel	B	--	--	--	--	--	--	--	A	--
Plating Solution-Others	A	--	A	A	A	A	A	A	A	C

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Plating Solution-Platinum	--	--	A	--	--	--	--	A	--	--
Plating Solution-Silver	B	--	A	--	A	--	--	A	--	--
Plating Solution-Tin	--	--	--	--	A	--	--	A	--	--
Plating Solution-Zinc	B	--	--	--	A	--	--	A	--	--
Polyethylene Glycol	A	--	--	A	A	A	--	A	A	--
Polyformaldehyde	X	--	X	X	X	--	--	A	--	--
Polyoxymethylene	X	--	B	B	B	--	--	C	A	--
Polypropylene Glycol	A	--	--	A	A	A	--	A	A	--
Polyvinyl Acetate Emulsion	--	--	B	--	A	B	A	--	A	--
Potash	B	B	B	C	A	A	B	C	A	A
Potash-Alum	A	--	A	A	A	A	A	A	A	A
Potash-Caustic	B	B	B	C	A	A	B	C	A	A
Potassa	B	B	B	C	A	A	B	C	A	A
Potassium Acetate	B	--	B	B	A	B	A	B	A	--
Potassium Alum	A	--	A	A	A	A	A	A	A	A
Potassium Aluminum Sulfate	A	--	A	A	A	A	A	A	A	A
Potassium Bicarbonate	A	--	A	A	--	A	--	A	A	--
Potassium Bichromate	X	A	B	A	A	B	A	A	A	A
Potassium Bisulfate	A	--	A	A	A	A	--	A	A	--
Potassium Bisulfite	A	--	A	A	A	A	--	A	A	--
Potassium Borates	A	--	A	A	A	A	A	A	A	--
Potassium Bromide	A	--	A	A	A	A	A	A	A	--
Potassium Carbonate	A	--	A	A	A	A	A	A	A	--
Potassium Chlorate	A	--	A	A	A	A	A	A	A	--
Potassium Chloride	A	A	A	A	A	A	A	A	A	A
Potassium Chromate	--	--	--	--	B	C	--	--	A	--
Potassium Chromic Sulfate	A	--	A	A	A	--	--	--	A	--
Potassium Cupro Cyanide	A	A	A	A	A	A	A	A	A	A
Potassium Cyanide	A	A	A	A	A	A	A	A	A	A
Potassium Dichromate	X	A	B	A	A	B	A	A	A	A
Potassium Hydrate	B	B	B	C	A	A	B	C	A	A
Potassium Hydroxide	B	B	B	C	A	A	B	C	A	A
Potassium Hypochlorite	C	--	C	X	C	B	--	--	A	--
Potassium Iodide	--	--	A	A	--	A	A	A	A	--
Potassium Muriate	A	A	A	A	A	A	A	A	A	A
Potassium Nitrate	A	A	A	A	A	A	A	A	A	A
Potassium Nitrite	A	A	A	A	A	A	A	A	A	A
Potassium Oxide	A	--	A	B	A	--	--	--	A	--
Potassium Permanganate	A	--	C	C	A	B	A	A	A	--
Potassium Phosphate	--	--	A	--	--	A	A	A	A	--
Potassium Silicate	A	--	A	A	A	A	A	A	A	--
Potassium Sulfate	A	A	A	A	A	A	A	A	A	A
Potassium Sulfide	A	A	A	A	A	A	A	A	A	A
Potassium Sulfite	A	--	A	A	A	A	A	A	A	--
Potassium Sulphate	A	A	A	A	A	A	A	A	A	A
Potassium Thiosulfate	A	--	A	A	--	A	--	A	A	--
Potato Oil	A	C	A	A	A	A	A	A	A	X
Potato Spirit	A	C	A	A	A	A	A	A	A	X
Prestone	A	B	A	A	A	A	A	A	A	A
Producer Gas	C	A	B	A	B	B	C	A	A	B
Propane	X	B	B	A	X	B	X	A	A	C
Propanediamine	B	--	--	B	A	C	--	--	A	--
Propanediol	A	--	--	A	A	A	A	A	A	--
Propanetriol	A	A	A	A	A	A	A	A	A	A
Propanol	A	X	A	B	A	A	B	A	A	A
2-Propanone	B	X	C	X	A	B	A	X	A	A
Propenal	B	--	--	B	A	B	--	A	A	--
Propene	X	--	X	X	X	X	A	A	A	--
Propene Oxide	--	--	X	--	B	X	B	--	A	X
Propenol	A	--	A	A	A	A	A	B	A	--
Propenyl Hydrate	A	A	A	A	A	A	A	A	A	A
Propenylanisole	X	--	--	X	X	X	--	B	A	--
Propionic Acid	A	--	X	X	A	--	A	--	A	--
Propionitrile	A	--	B	X	A	--	A	X	A	--
Propyl Acetate	X	--	X	X	B	C	C	X	A	C

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
n-Propyl Acetate	X	--	X	X	B	--	A	X	A	--
Propyl Acetone	X	--	X	X	A	--	--	--	A	--
Propyl Alcohol	A	X	A	B	A	A	B	A	A	A
Propyl Aldehyde	C	--	--	X	B	X	--	X	A	--
Propyl Chloride	X	--	--	X	C	X	--	B	A	--
Propyl Cyanide	X	--	X	X	A	--	A	--	A	--
Propyl Ethylene	X	--	A	C	X	--	X	--	A	--
Propyl Formic Acid	X	--	X	X	X	--	--	--	A	--
Propyl Nitrate	--	--	--	--	B	C	B	C	A	C
Propylene	X	--	X	X	X	X	X	A	A	--
Propylene Aldehyde	X	--	--	X	A	X	--	X	A	--
Propylene Chloride	X	--	X	X	X	X	X	B	A	--
Propylene Diamine	B	--	--	B	A	C	--	--	A	--
Propylene Dichloride	X	--	X	X	X	X	X	B	A	--
Propylene Glycol	A	--	--	A	A	A	A	A	A	--
Propylene Oxide	--	--	X	--	B	X	B	--	A	X
Protochloride	A	--	B	--	A	--	--	--	A	--
Prussic Acid	B	C	C	B	B	A	B	A	A	A
Purina Woody Plant Spray 10%	X	--	X	X	X	--	--	C	A	X
Purple Salt	X	--	X	B	B	--	--	--	A	--
Pyracetic Acid	C	--	C	C	A	B	B	A	A	A
Pyranol	X	B	X	A	X	X	X	A	A	B
Pyranol 1467	--	--	C	A	--	--	X	--	A	--
Pyranol 1476	--	--	B	A	--	--	X	A	A	--
Pydraul F-9	X	--	X	X	X	--	--	--	A	--
Pydrauls (Hydraulic Fluid)	X	X	X	X	A	X	B	A	A	B
Pyrene	X	C	X	C	X	X	X	A	A	X
Pyrex	X	C	X	C	X	X	X	A	A	X
Pyridine	X	X	X	X	A	X	B	C	A	--
Pyridine Oil	--	--	--	X	--	--	--	X	A	--
Pyrite	A	--	--	A	A	A	--	A	A	--
Pyroacetic Ether	X	--	X	X	A	--	--	--	A	--
Pyroacetic Spirit	B	X	C	X	A	B	A	X	A	A
Pyrogallolcarboxylic Acid	A	X	C	X	B	B	B	A	A	--
Pyroigneous Acid	C	--	C	C	B	B	B	A	A	A
Pyroigenous Spirit	A	X	A	A	A	A	B	C	A	A
Pyromucic Aldehyde	X	--	X	X	A	--	--	--	A	--
Pyroxylic Spirit	A	X	A	A	A	A	B	C	A	A
Pyrrrole	C	--	X	X	B	--	C	C	A	B
Quaternary Ammonium Salts	A	--	--	A	A	A	--	A	A	--
Quicklime	A	--	A	A	A	A	A	--	A	--
Quicksilver	A	A	A	A	A	A	A	A	A	A
Quinol	B	--	X	C	X	A	--	C	A	--
Radiation	B	A	B	B	C	B	C	B	A	B
Rape Oil	X	B	B	B	A	B	A	A	A	X
Rapeseed Oil	X	B	B	A	B	B	B	A	A	X
Raw Linseed Oil	X	B	B	C	A	B	B	A	A	X
Red Oil	X	B	C	A	B	B	B	A	A	X
Red Potassium Chromate	X	--	X	B	A	--	--	--	A	--
Retinol	--	--	A	A	X	B	--	A	A	--
Rhigolene	X	--	B	A	X	B	X	A	A	--
Richfield "A" 100%	X	--	X	C	X	X	X	C	A	--
Richfield "D" 33%	X	--	B	B	B	--	X	C	A	--
Ricinus Oil (Ricinine)	B	A	A	A	A	A	A	A	A	A
Rock Salt	A	A	A	B	A	A	A	A	A	A
Roman Vitroil	C	A	A	A	A	A	A	A	A	A
Rosin Oil	--	--	A	A	X	B	--	A	A	--
Rotenone & H2O	A	--	A	A	--	--	--	A	A	--
Rum	A	X	A	A	A	A	A	B	A	A
Saccharose	A	X	A	A	A	A	A	A	A	A
Saccharum Amylaceum	B	A	B	B	A	A	A	A	A	A
Saccharum Solutions	A	X	A	A	A	A	A	A	A	A
SAE #10 Oil	X	A	B	A	X	C	C	A	A	--
Sal Ammoniac	A	A	A	A	A	A	A	A	A	B
Sal Chalybdis	A	--	A	A	A	A	A	A	A	--

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Sal Soda	A	--	A	A	A	A	A	A	A	A
Sal Tartari	A	--	A	A	A	A	A	A	A	--
Sal Volatile	A	--	B	X	A	B	A	A	A	B
Salicylic Acid	A	--	X	X	A	A	A	A	A	--
Salimiak (Salmiac)	A	A	A	A	A	A	A	A	A	B
Saliter (Salitre)	B	--	B	C	A	A	A	A	A	C
Salt	A	A	A	A	A	A	A	A	A	A
Salt Cake	A	A	A	A	A	A	A	A	A	A
Salt of Lemery	A	A	A	A	A	A	A	A	A	A
Salt of Tartar	A	--	A	A	A	A	A	A	A	--
Salt of Vitriol	A	--	A	A	A	A	A	A	A	A
Salt Water	A	A	B	B	A	A	A	A	A	A
Saltpeter-Ammonium Nitrate	A	X	A	A	A	A	A	A	A	B
Saltpeter-Calcium Nitrate	A	X	A	A	A	A	A	A	A	A
Saltpeter-Potassium Nitrate	A	A	A	A	A	A	A	A	A	A
Saltpeter-Sodium Nitrate	B	--	B	C	A	A	A	A	A	C
Sand Acid	A	B	B	B	A	A	B	A	A	X
Sanitizer 160 (Monsanto)	X	--	--	--	--	--	A	B	A	--
Sea Salt	A	A	A	A	A	A	A	A	A	A
Sea Water	A	A	B	B	A	A	A	A	A	A
Seed Oil	X	A	A	A	B	B	A	A	A	A
Separan NP-10	A	--	--	--	--	--	--	A	A	--
Sewage	C	X	A	A	B	A	B	A	A	A
Sewerage	C	X	A	A	B	A	B	A	A	A
Shale Naphtha	X	--	B	A	X	X	A	A	A	A
Shell DD	X	--	X	X	X	--	--	C	A	--
Sherwood Oil	X	B	B	A	X	X	X	A	A	C
Sieman's Gas	C	A	B	A	B	B	C	A	A	B
Silent Spirit	A	X	A	A	A	A	A	B	A	A
Silicate Esters	X	A	B	A	B	A	X	A	A	C
Silicate of Soda	A	--	A	A	A	A	A	A	A	A
Silicofluoric Acid	A	B	B	B	A	A	B	A	A	X
Silicone Greases	B	A	A	A	B	A	A	A	A	B
Silicone Oils	C	A	C	A	C	A	A	A	A	B
Silver Cyanide	A	--	A	--	--	--	--	A	A	--
Silver Nitrate	A	A	A	B	A	A	A	A	A	A
Skelly Solve	--	--	A	--	--	--	--	C	A	--
Skydrol Hydraulic Fluid	X	--	X	X	A	X	B	C	A	--
Sdyfrol 500	X	X	X	X	B	X	A	C	A	C
Skydrol 7000	X	X	X	X	B	X	C	B	A	B
Slaked Lime	A	A	A	A	A	B	A	A	A	A
Soap Solutions	B	A	B	A	A	A	A	A	A	A
Soda	A	--	A	A	A	A	A	A	A	A
Soda Alum	A	A	A	A	A	A	A	A	A	A
Soda Ash	A	--	A	A	A	A	A	A	A	A
Soda-Baking	A	--	A	A	A	A	A	A	A	A
Soda-Caustic	A	C	B	B	A	B	A	B	A	C
Soda-Lime	A	C	B	B	A	B	A	B	A	C
Soda-Niter(Nitre)	B	--	B	C	A	A	A	A	A	C
Soda-Saltper	B	--	B	C	A	A	A	A	A	C
Soda-Washing	A	--	A	A	A	A	A	A	A	A
Sodan	B	--	B	B	B	--	--	A	A	--
Sodium Acetate	C	X	B	C	A	A	A	X	A	--
Sodium Acid Carbonate	A	--	A	A	A	A	A	A	A	A
Sodium Acid Sulfate	A	--	A	B	A	--	--	A	A	--
Sodium Alum	A	A	A	A	A	A	A	A	A	A
Sodium Aluminate	A	--	--	A	A	A	--	A	A	--
Sodium Aluminum Sulfate	A	A	A	A	A	A	A	A	A	A
Sodium Arsenate	A	--	--	--	A	--	--	A	A	--
Sodium Benzoate	A	--	--	--	A	--	--	A	A	--
Sodium Bicarbonate	A	--	A	A	A	A	A	A	A	A
Sodium Bichromate	X	A	B	--	A	B	A	A	A	--
Sodium Bisulfate	A	--	A	A	A	A	A	A	A	A
Sodium Bisulfite	A	--	A	A	A	A	A	A	A	A
Sodium Bisulphate	A	--	A	A	A	A	A	A	A	A

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Sodium Borate	A	--	A	A	A	A	A	A	A	A
Sodium Bromides	A	--	--	--	A	--	--	--	A	--
Sodium Carbonate	A	--	A	A	A	A	A	A	A	A
Sodium Carbonate-Anhydrous	A	--	A	A	A	A	A	A	A	A
Sodium Carbonate-Hydrated	A	--	A	A	A	A	A	A	A	A
Sodium Chlorate	A	--	B	A	B	A	A	A	A	--
Sodium Chloride	A	A	A	A	A	A	A	A	A	A
Sodium Chromate	--	--	--	--	B	C	--	--	A	--
Sodium Cyanide	A	--	A	A	A	A	A	A	A	A
Sodium Dichromate	X	A	B	--	A	B	A	A	A	--
Sodium Dimetaborate	A	A	A	B	A	A	A	A	A	B
Sodium Dioxide	B	X	B	B	A	A	B	A	A	C
Sodium Diphosphate	A	--	B	A	A	--	--	--	A	--
Sodium Disulfite	B	--	A	A	A	--	--	--	A	--
Sodium Fluoaluminate 10%	A	--	A	A	A	A	A	A	A	--
Sodium Fluoride	A	--	A	A	A	--	A	A	A	--
Sodium Hexmetaphosphate	A	--	B	B	A	--	--	--	A	--
Sodium Hydrate	A	C	B	C	A	B	A	B	A	C
Sodium Hydrochlorite	C	X	C	C	B	A	B	A	A	B
Sodium Hydrogen Carbonate	A	--	A	A	A	A	A	A	A	A
Sodium Hydrogen Sulfate	A	--	A	A	A	A	A	A	A	A
Sodium Hydroxide	A	C	B	C	A	B	A	B	A	C
Sodium Hypochloride	C	X	C	X	B	A	C	A	A	--
Sodium Hypochlorite-5%	C	X	C	C	B	A	B	A	A	B
Sodium Hypochlorite-20%	X	X	X	X	C	A	C	--	A	--
Sodium Hyposulfite	A	A	A	A	A	A	A	A	A	A
Sodium Iodine	--	--	A	--	--	--	--	A	A	--
Sodium Metaborate Peroxy-Hydrat	A	--	A	A	A	--	--	--	A	--
Sodium Metaphosphate	A	--	C	B	A	B	A	A	A	A
Sodium Nitrate	B	--	B	C	A	A	A	A	A	C
Sodium Nitrite	--	--	A	--	--	A	--	A	A	--
Sodium Perborate	B	--	B	B	A	B	A	A	A	B
Sodium Peroxide	B	X	B	B	A	A	B	A	A	C
Sodium Phosphate	A	A	B	B	A	A	A	A	A	C
Sodium Pyroborate	A	A	A	B	A	A	A	A	A	B
Sodium Salts	A	--	A	--	--	A	--	A	A	--
Sodium Sesquicarbonate	A	--	A	A	A	--	--	--	A	--
Sodium Silicate Sulfate	A	--	A	A	A	--	--	--	A	--
Sodium Silicates	A	--	A	A	A	A	A	A	A	A
Sodium Stannic Chloride	A	--	X	B	A	--	--	--	A	--
Sodium Subulfite	A	A	A	A	A	A	A	A	A	A
Sodium Sulfates	A	A	A	A	A	A	A	A	A	A
Sodium Sulfide	A	A	A	A	A	A	A	A	A	A
Sodium Sulfites	A	A	A	A	A	A	A	A	A	A
Sodium Superoxide	B	X	B	B	A	A	B	A	A	C
Sodium Tetraborate	A	--	A	A	A	A	A	A	A	A
Sodium Thiosulfate	A	A	A	A	A	A	A	A	A	A
Sodium Triphosphates	A	--	A	A	A	--	--	--	A	--
Sodium Tripolyphosphate	A	--	A	A	A	--	--	--	A	--
Solene	X	B	B	A	X	X	X	A	A	C
Soluble Glass	A	--	A	A	A	A	A	A	A	A
Solvasol #1, #2, #3	--	--	--	A	--	--	--	C	A	--
Solvasol #73	--	--	--	C	--	--	--	C	A	--
Solvasol #74	--	--	--	X	--	--	--	C	A	--
Soya Oil (Soy Oil)	X	B	B	A	A	A	B	A	A	X
Soybean Oil	X	B	B	A	A	A	B	A	A	X
Spirit	A	X	A	A	A	A	A	B	A	A
Spirits of Turpentine	X	X	C	A	X	X	X	A	A	C
Spirits of Vinegar	B	B	B	C	B	B	A	C	A	A
Spirits of Wine	A	X	A	A	A	A	A	B	A	A
Stannic Chloride	A	B	A	A	B	A	B	A	A	B
Stannic Sulfide	A	--	--	A	A	A	--	--	A	--
Stannous Chloride	A	B	A	A	B	A	B	A	A	B
Stannous Sulfide	A	--	--	A	A	A	--	--	A	--
Stardh Syrup (Sugar)	B	A	B	B	A	A	A	A	A	A

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Steam, Saturated-To 225° F.	C	C	C	C	B	B	A	X	A	X
Steam, Saturated-225°-300°F	X	X	X	X	B	C	A	X	A	X
Steam, Saturated-Over 300°F	X	X	X	X	X	X	C	X	A	X
Stearic Acid	X	A	B	A	B	C	B	A	A	B
Atoddard Solvent	X	A	C	A	X	X	X	A	A	X
Stripper S.A.	X	--	X	--	--	--	--	--	A	--
Styrene	X	C	X	X	X	X	X	A	A	X
Sublimed White Lead	B	--	A	B	A	--	--	--	A	--
Sucrose Solution	A	X	A	A	A	A	A	A	A	A
Sugar of Lead	B	--	A	B	A	A	A	X	A	X
Sugar Liquors-Cane, Beet & Map	A	X	A	A	A	A	A	A	A	A
Sulfamic Acid	B	--	A	B	A	B	--	--	A	--
Sulfite Cellulose Liquors	B	--	A	A	A	A	B	A	A	X
Sulfitic Liquors	B	--	A	A	A	A	B	A	A	X
Sulfonic Acid	X	--	--	X	X	C	--	X	A	--
Sulfur	C	B	B	B	B	A	A	A	A	B
Sulfur-250°F	X	X	X	--	C	C	A	B	A	--
Sulfur Chloride	X	--	C	C	X	A	X	A	A	C
Sulfur Dioxide	C	--	C	C	B	A	A	A	A	A
Sulfur Dioxide-1% @ 100°F	--	--	A	--	--	--	A	A	A	--
Sulfur Dioxide-Liquid	B	B	A	X	B	A	B	A	A	--
Sulfur Hexafluoride	X	--	B	B	A	A	A	A	A	A
Sulfur Monochloride	X	--	C	C	X	A	X	A	A	C
Sulfur Subchloride	X	--	C	C	X	A	X	A	A	C
Sulfur Trioxide (Dry)	X	B	C	C	C	B	C	A	A	B
Sulfurated Lime	A	A	B	A	A	A	A	A	A	B
Sulfuretted Hydrogen	C	--	C	X	A	C	A	B	A	C
Sulfuric Acid-10%,9BE	A	B	A	B	A	A	A	A	A	B
Sulfuric Acid-25%	B	X	B	C	B	A	B	A	A	X
Sulfuric Acid-50%,41BE	B	X	X	C	B	A	B	A	A	X
Sulfuric Acid-60%,48BE	C	X	C	X	B	A	B	A	A	X
Sulfuric Acid-75%,58BE	X	X	X	X	B	B	C	A	A	X
Sulfuric Acid-95%,66BE	X	X	X	X	X	C	C	A	A	X
Sulfuric Acid-100%	X	X	X	X	X	C	X	B	A	X
Sulfuric Acid-Concentrated	X	--	X	X	X	C	C	A	A	X
Sulfuric Acid-Dilute	A	B	A	B	A	A	A	A	A	B
Sulfuric Acid-Fuming	X	X	X	X	X	C	X	B	A	X
Sulfuric Acid-Oleum	X	X	X	X	X	C	X	B	A	X
Sulfuric Ether	X	C	X	B	C	B	X	X	A	C
Sulfurous Acid-10%	B	--	X	X	A	A	--	A	A	--
Sulfurous Acid-10% to 75%	B	--	X	X	A	A	--	A	A	--
Sulfurous Acid-100%	B	X	X	X	B	A	C	A	A	C
Sulfurous Acid Anhydride	C	--	C	C	B	A	C	A	A	A
Sulfurous Oxychloride	X	--	X	X	X	--	--	A	--	--
Sulphite Liquors	B	--	A	A	A	A	B	A	A	X
Summer Oil	A	--	A	A	--	--	--	A	A	--
Superphosphoric Acid	--	--	--	--	A	--	--	--	A	--
Sweet Birch Oil	X	--	X	X	B	--	C	B	A	--
Sweet Oil	X	B	B	B	A	B	A	A	A	X
Table Salt	A	A	A	A	A	A	A	A	A	A
Tall Oil	X	--	B	A	X	C	X	A	A	--
Tallol	X	--	B	A	X	C	X	A	A	--
Tallow	X	A	B	A	B	C	A	A	A	B
Tan	A	A	A	C	C	A	C	A	A	B
Tannic Acid	A	A	A	C	C	A	C	A	A	B
Tannin	A	A	A	C	C	A	C	A	A	B
Tanning Liquors	--	--	A	A	X	B	--	A	A	--
Tanning Solutions	B	--	A	A	A	--	--	--	A	--
Tar, Bituminous	X	--	C	B	X	C	X	A	A	B
Tar Camphor	X	B	X	X	X	X	X	A	A	X
Tartaric Acid	A	A	C	B	B	A	B	A	A	A
Taxaphene 12%	X	--	B	B	X	X	--	--	A	--
T.C.A.	X	--	X	X	X	--	--	--	A	--
T.C.P.	C	C	C	X	A	C	A	B	A	C
T.E.A.	B	--	X	B	A	--	--	--	A	--

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Tarpen	X	--	X	C	X	X	X	A	A	--
Terpineol (Terpileno)	X	B	X	C	B	X	B	A	A	--
Tertiary Butyl Alcohol	A	X	A	A	A	A	B	A	A	B
Tertiary Butyl Catechol	C	X	B	X	B	B	A	A	A	--
P-Tertiary Butyl Catechol	C	--	A	X	A	--	--	A	A	--
Tertiary Butyl Mercaptan	X	X	X	X	X	X	X	A	A	--
Tetrabromoethane	X	--	X	X	X	--	--	--	A	--
Tetrabromomethane	X	--	X	X	X	--	X	A	A	X
Tetrabutyl Titanate	B	--	A	B	B	A	B	A	A	--
Tetrachlorobenzene	X	--	--	X	X	X	--	B	A	--
Tetrachlorodifluoroethane	X	--	X	X	X	--	--	--	A	--
Tetrachlorodifluoromethane	X	--	X	X	X	--	--	--	A	--
Tetrachloroethane	X	--	X	X	X	X	X	A	A	C
Tetrachloroethylene	X	B	X	X	X	X	X	A	A	C
Tetrachloromethane	X	C	X	C	X	X	X	A	A	X
Tetrachloronaphthalene	X	--	--	X	X	X	--	B	A	--
Tetradecanol	A	--	--	A	A	A	--	B	A	--
Tetraethyl Lead	X	--	X	B	X	X	X	A	A	--
Tetraethyl Orthosilicate	X	--	A	A	A	--	--	--	A	--
Tetraethylene Glycol	A	--	--	A	A	A	--	A	A	--
Tetrafluoromethane	X	--	X	X	B	X	B	--	A	--
Tetrahydrofuran	X	C	C	X	B	X	C	X	A	--
Tetrahydronaphthalene	X	--	X	X	X	X	X	A	A	C
Tetralin	X	--	X	X	X	X	X	A	A	C
Tetrane	X	A	B	A	X	A	C	A	A	--
Tetrol	X	--	X	X	X	X	X	C	A	--
Thenardie	A	A	A	A	A	A	A	A	A	A
Theta Octadecenoic Acid	X	--	B	X	X	--	--	--	A	--
T.H.F.	X	--	--	X	X	X	--	X	A	--
Thioethyl Alcohol	X	--	X	X	X	X	X	B	A	--
Thionyl Chloride	X	--	X	X	X	--	X	A	A	--
Thiophene (Thiophen)	X	--	X	X	C	--	X	C	A	--
Tin Bichloride	A	B	A	A	B	A	B	A	A	B
Tin Chlorides	A	B	A	A	B	A	B	A	A	A
Tin Crystals	A	B	A	A	B	A	B	A	A	B
Tin Dichloride	A	B	A	A	B	A	B	A	A	B
Tin Protochloride	A	B	A	A	B	A	B	A	A	B
Tin Salts	A	B	A	A	B	A	B	A	A	B
Tin Tetrachloride	A	--	--	A	A	A	--	--	A	--
Tincal (Tinkal)	A	A	A	B	A	A	A	A	A	B
Titanium Tetrachloride	X	--	X	C	X	X	X	A	A	--
T.N.T.	X	--	A	X	X	B	X	C	A	--
Toliet Vinegar	B	B	B	C	A	B	A	A	A	A
Toluene	X	C	X	C	X	X	X	A	A	X
Toluene Diisocyanate	C	--	X	--	A	X	A	--	A	--
Toluidine (Toluidin)	X	--	--	X	X	X	--	B	A	--
Toluene Trichloride	--	--	--	X	--	--	--	--	A	--
Toluol (Toluole)	X	C	X	C	X	X	X	A	A	X
Transformer Oil	X	X	--	B	X	B	X	A	A	C
Transmission Fluid Type A	X	A	C	A	X	C	X	A	A	B
Triacetin	B	X	A	A	A	B	A	C	A	--
Triammonium Phosphate	A	--	A	A	A	A	A	A	A	A
Triaryl Phosphate	X	B	C	X	A	C	A	A	A	C
Tributoxy Ethyl Phosphate	B	X	X	X	B	X	A	B	A	--
Tributyl Amine	B	--	--	B	A	C	--	--	A	--
Tributyl Mercaptan	X	--	X	X	X	X	X	A	A	--
Tributyl Phosphate	C	X	X	X	B	C	C	X	A	--
Trichloroacetic Acid	C	--	B	C	C	B	B	B	A	--
Trichlorobenzenes	X	--	X	X	X	X	--	B	A	--
Trichloroethane	X	X	X	X	X	X	X	A	A	C
Trichloroethylene	X	X	X	X	X	X	X	A	A	C
Trichloromethane	X	C	X	X	X	X	X	A	A	C
Trichloromonofluoromethane	X	--	X	X	X	--	--	--	A	--
Trichloropropane	X	--	--	X	X	X	--	B	A	--
Trichlorotoluene	--	--	--	X	--	--	--	--	A	--

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Trichlorotrifluoroethane	X	--	X	X	X	--	--	A	--	--
Tricresyl Phosphate	C	C	C	X	A	C	A	B	A	C
Tridecanol	A	--	--	A	A	A	--	B	A	--
Triethanol Amine	B	X	B	B	A	A	B	B	A	A
Triethyl Aluminum	X	--	X	X	--	--	--	B	A	--
Triethyl Amine	B	--	B	A	C	--	--	--	A	--
Triethyl Borane	X	--	X	X	--	--	--	A	A	--
Triethylene Glycol	A	--	--	A	A	A	--	A	A	--
Trifluorovinyl Chloride	X	--	--	X	X	--	--	--	A	--
Trihydroxybenzoic Acid	A	X	C	X	B	B	B	A	A	--
Trihydroxyethyl Amine	C	--	B	B	A	--	--	--	A	--
Trimethyl Methane	X	--	--	A	X	X	--	A	A	--
Trimethyl Pentane	X	B	B	A	X	B	X	A	A	X
Trimethylene Glycol	A	--	--	A	A	A	A	A	A	--
Trinidad Pitch	X	B	B	A	X	B	X	A	A	X
Trinitrophenol	C	B	C	C	C	A	B	A	A	X
Trinitrotoluene (Trinitrotoluol)	X	--	A	X	X	B	X	C	A	C
Trioctyl Phosphate	X	--	X	X	A	X	A	B	A	C
Triolein	X	--	C	B	B	--	--	--	A	--
Triphenyl Phosphate	X	--	--	X	A	C	--	C	A	--
Tripolyphosphate	X	--	X	X	--	--	--	--	A	--
Trisodium Phosphate	A	A	A	A	A	A	A	A	A	--
Tritolylphosphate	C	C	C	X	A	C	A	B	A	C
Trotyl	X	--	A	X	X	B	X	C	A	--
Tung Oil	X	B	B	A	B	B	C	B	A	C
Turbine Oil	X	--	B	B	X	B	X	A	A	--
Turpentine	X	X	C	A	X	X	X	A	A	C
Turpentine Substitute	X	--	X	X	X	--	--	--	A	--
Turps	X	--	X	A	X	X	X	A	A	X
Two Four D with 10% Fuel Oil	X	--	A	A	--	--	X	A	A	--
Ucon Hydrolube Oils	X	--	B	A	A	--	--	A	A	--
U.D.M.H.	--	--	B	C	A	A	A	X	A	C
Undecanol	A	--	--	A	A	A	--	B	A	--
Unslaked Lime	A	--	A	A	A	A	A	--	A	--
Unsymmetrical Dimethyl Hydrizi	--	--	B	C	A	A	A	X	A	C
Uran	B	--	B	B	B	--	--	--	A	--
Urea	A	--	B	B	A	A	--	--	A	--
Valeric Acid	A	--	X	X	A	--	A	--	A	--
Valerone	X	--	X	X	C	X	B	X	A	--
Varnish	X	--	C	B	X	C	X	A	A	--
Vegetable Oils	X	A	B	A	A	B	A	A	A	A
Versilube, F44 & F50	C	--	C	A	B	A	A	A	A	C
Vinegar	B	B	B	C	A	B	A	A	A	A
Vinegar Naphtha	X	X	X	X	B	X	B	X	A	B
Vinegar Salts	B	--	B	B	A	A	A	X	A	--
Vinyl Acetate	X	--	--	X	A	C	--	X	A	--
Vinyl Benzene	X	--	--	X	X	X	--	A	A	--
Vinyl Chloride	C	--	X	X	B	X	C	A	A	--
Vinyl Cyanide	B	--	B	X	C	C	X	X	A	X
Vinyl Ether	X	--	--	B	X	B	--	X	A	--
Vinyl Oxide	X	--	--	B	X	B	--	X	A	--
Vinyl Toluene	X	--	--	X	X	X	--	A	A	--
Vinyl Trichloride	X	--	X	X	X	X	--	A	A	--
Vinylene Chloride	X	X	X	X	C	X	B	B	A	C
Vitriol, Oil of	X	--	X	X	X	C	C	A	A	X
V.M. & P. Naphtha	X	--	B	A	X	X	X	A	A	A
Wagner 21B Fluid	--	--	A	C	B	B	A	X	A	C
Walnut Oil	X	--	B	A	--	--	--	A	A	--
Washing Soda	A	--	A	A	A	A	A	A	A	A
Water-Acid Mine	A	A	C	A	A	A	A	A	A	A
Water-Distilled, Lab.,Ret.Cond.	A	A	C	A	A	A	A	A	A	C
Water-Fresh	A	A	B	A	A	A	A	A	A	A
Water-Seawater-River Water	A	A	B	B	A	A	A	A	A	A
Water Glass	A	A	A	A	A	A	A	A	A	A
Water Proofing Salt	A	--	B	B	B	--	--	--	A	--

MEDIA PIPED/PUMPED	"TUBE" ELASTOMER									
	NATURAL	URETHANE	NEOPRENE	BUNA-N	CHLOROBUTYL	HYPALON®	EPT/EPDM	VITON®	TEFLON®	SILICONE
CHEMICAL										
Wax	X	--	A	A	X	A	X	A	A	--
Whiskey	A	A	A	B	A	A	A	A	A	A
White Caustic	A	A	B	B	A	B	A	B	A	C
White Copperas	A	--	A	A	A	A	A	A	A	A
White Lead Sulfate	A	--	A	B	A	A	--	A	A	--
White Liquor	A	--	A	A	--	A	A	--	A	--
White Oil	X	--	B	A	X	X	X	A	A	X
White Pine Oil	X	--	X	B	X	X	X	A	A	--
White Vitriol	A	--	A	A	A	A	A	A	A	A
Whiting	A	--	A	A	A	A	A	A	A	--
Wines	A	X	A	A	A	A	A	B	A	A
Wintergreen Oil	X	--	X	X	B	--	C	B	A	--
Wolmar Salts	--	--	A	--	--	--	--	--	A	--
Wood Alcohol	A	X	A	A	A	A	B	C	A	A
Wood Naphtha	A	X	A	A	A	A	B	C	A	A
Wood Oil	X	B	B	A	B	B	C	B	A	C
Wood Spirit	A	X	A	A	A	A	B	C	A	A
Wood Tar	X	X	X	B	X	X	X	A	A	C
Wood Vinegar	A	--	C	C	A	A	B	A	A	A
Wool Oil	B	--	A	A	--	--	--	--	A	--
WRV	X	A	X	X	X	X	X	A	A	A
Xylene	X	C	X	C	X	X	X	A	A	X
Xylidine's(Xylidin)	X	--	X	X	B	X	C	C	A	X
Xylidines,Mixed	X	--	X	X	X	--	A	C	A	--
Xylol	X	C	X	C	X	X	X	A	A	X
Xyl Stoddard Solvent	X	--	X	X	X	X	--	A	A	--
Zala	A	A	A	B	A	A	A	A	A	B
Zeolite (Zeolitic)	B	--	C	C	A	A	A	A	A	--
Zinc Acetate	A	--	C	C	A	B	A	C	A	X
Zinc Butter	B	A	B	B	A	A	A	A	A	A
Zinc Carbonate	A	--	--	A	A	A	--	A	A	--
Zinc Chloride	B	A	B	B	A	A	A	A	A	A
Zinc Chromate	--	--	--	--	A	C	--	--	A	--
Zinc Sulfate	A	--	A	A	A	A	A	A	A	A
Zinc Sulphate	A	--	A	A	A	A	A	A	A	A
Zinc Vitriol	A	--	A	A	A	A	A	A	A	A
Zirliite	A	--	A	B	A	B	A	C	A	--

A - EXCELLENT B - GOOD C - CONDITIONAL X - NOT RECOMMENDED -- - INSUFFICIENT INFORMATION

MATERIAL SELECTION					Maximum Design Temp.	TYPICAL APPLICATIONS--GENERAL RECOMMENDATIONS	
Material Code	Tube Elastomer	Body Elastomer	Cover Elastomer	Body Reinforcing		SEE CHEMICAL RESISTANCE DATA FOR SPECIFIC RECOMMENDATIONS	
111	Natural	Natural	Natural	Polyester	180°F	Water, Organic Acids, Abrasive Products	General Indoor Service
113	Natural	Natural	Neoprene	Polyester	180°F	Water, Organic Acids, Abrasive Products	Oil Atmosphere Service & General Indoor/Outdoor
115	Natural	Natural	Butyl	Polyester	180°F	Water, Organic Acids, Abrasive Products	General Indoor/Outdoor
111X	Pure Gum	Natural	Natural	Polyester	180°F	Organic Acids, Mild Inorganic Acids, Severe Abrasive Products	General Indoor Service
113X	Pure Gum	Natural	Neoprene	Polyester	180°F	Organic Acids, Mild Inorganic Acids, Severe Abrasive Products	Oil Atmosphere Service & General Indoor/Outdoor
115X	Pure Gum	Natural	Butyl	Polyester	180°F	Organic Acids, Mild Inorganic Acids, Severe Abrasive Products	General Indoor/Outdoor
333	Neoprene	Neoprene	Neoprene	Polyester	225°F	Non-Aromatic Petroleum Products	Oil Atmosphere Service & General Indoor/Outdoor
333FDA	FDA-Neo	Neoprene	Neoprene	Polyester	225°F	FDA-Food Grade For Oil Base or Abrasive Foods	Food Service
333X	Neoprene	Neoprene	Special Neo.	Polyester	225°F	Petroleum and Lube Oil Resistant, Fire Retardant, Meets MIL-E-15330D & ASTM F 1123-87, Navy & U.S. Coast Guard	Marine and Ship Services
433	Nitrile	Neoprene	Neoprene	Polyester	225°F	Aromatic and Aliphatic Petroleum Products	Oil Atmosphere Service & General Indoor/Outdoor
433X	Nitrile	Neoprene	Special Neo.	Polyester	225°F	Petroleum and Lube Oil Resistant, Fire Retardant, Meets MIL-E-15330D & ASTM F 1123-87, Navy & U.S. Coast Guard	Marine and Ship Services
533	Butyl	Neoprene	Neoprene	Polyester	250°F	Water, Animal & Vegetable Oils, Oxidizing Chemicals, Gases	Oil Atmosphere Service & General Indoor/Outdoor
555	Butyl	Butyl	Butyl	Polyester	300°F	Water, Animal & Vegetable Oils, Oxidizing Chemicals, Gases	Oil Atmosphere Service & General Indoor/Outdoor
633	Hypalon	Neoprene	Neoprene	Polyester	250°F	Acids, Caustics, Chemicals, Aliphatic Hydrocarbons, Sewage	Oil Atmosphere Service & General Indoor/Outdoor
733	EPDM	Neoprene	Neoprene	Polyester	250°F	Hot Water, Animal & Vegetable Oils, Oxidizing Chemicals	Oil Atmosphere Service & General Indoor/Outdoor
777	EPDM	EPDM	EPDM	Polyester	300°F	Saturated Steam, Animal & Vegetable Oils, Oxidizing Chemicals	Oil Atmosphere Service & General Indoor/Outdoor
833	Viton	Neoprene	Neoprene	Polyester	300°F	Aliphatic-Aromatic-Halogenated Hydrocarbons, Acids	Oil Atmosphere Service & General Indoor/Outdoor
835	Viton	Neoprene	Butyl	Polyester	300°F	Aliphatic-Aromatic-Halogenated Hydrocarbons, Acids	General Indoor/Outdoor
888	Viton	Viton	Viton	Polyester	350°F	High Temperature, Most Acids, Hydrocarbons, Gasses	Hydrocarbon Atmosphere
933	Teflon	Neoprene	Neoprene	Polyester	250°F	Most Known Chemicals and Gases	Oil Atmosphere Service & General Indoor/Outdoor
955	Teflon	Butyl	Butyl	Polyester	300°F	Most Known Chemicals and Gases	General Indoor/Outdoor
938	Teflon	Neoprene	Viton	Polyester	300°F	Most Known Chemicals and Gases	Hydrocarbon Atmosphere

Notes:

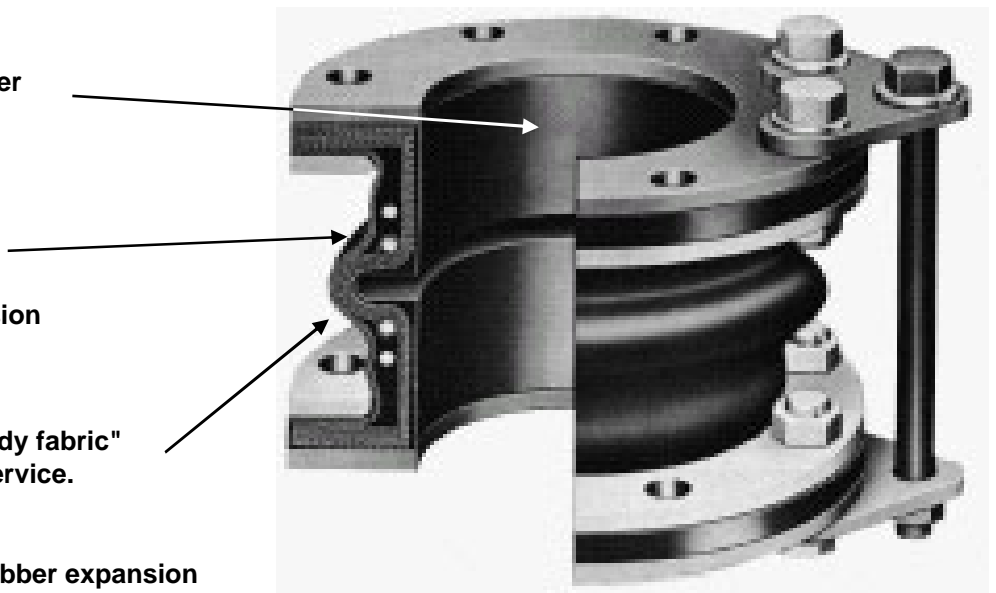
1. Teflon Liners Can Be Provided With Other Elastomers Than Noted Above - Contact Holz Rubber
2. Other Combinations of Materials Are Available - Contact Holz Rubber
3. Viton, Teflon and Hypalon Are Registered Trademarks of E.I. DuPont de Nemours & Co, Inc.

One piece "tube/flange" elastomer selected for resistance against medium pumped/piped.

One piece "cover" elastomer selected for resistance against atmosphere surrounding expansion joint.

Holz special polyester blend "body fabric" for high temperature/pressure service.

Cross section of Holz Rubber expansion joint showing exclusive "double protection" construction.



Elastomer Common Name Chemical Group	NATURAL Polyisoprene	SILICONE Dimethyl Polysiloxane	NEOPRENE Chloroprene	BUNA-N Nitrile Butadiene	CHLORO- BUTYL Isobutylene Isoprene	HYPALON* Chloro-Sulfonyl Polyethylene	EPT/EPDM Ethylene- Propylene Diene- Terpolymer	VITON* Hexafluoro- Propylene Vinylidene Fluoride	TEFLON* Tetrafluoro- Ethylene Resin
ASTM Designation D1418 ASTM D-2000 SAE J200	NR/IR Type AA	SI Type GE	CR Type BC	NBR Type BF	CIIR Type BA	CSM Type CE	EPDM Type AA	FPM Type HK	AF MU
Specific Gravity of Base	0.93	0.95	1.23	1.00	0.92	1.12	0.86	1.85	
High Tem. (Max. °F)	180	500	225	225	300	250	300	400	450
Low Temp. (Min. °F)	-65	-160	-65	-65	-65	-65	-65	-40	-120
Generally Resistant To:	Water, Air, Most Moderate Chemicals Wet or Dry, Organic Acids, Alcohols, Ketones, Aldehydes.	Moderate or oxidizing Chemicals, Ozone, Concentrated Sodium Hydroxide.	Moderate Chemicals and Acids, Ozone, Oils, Fats, Greases, Many Oils and Solvents.	Many Hydrocarbons, Fats, Oils, Greases, Hydraulic Fluids, Chemicals.	Animal and Vegetable Fats, Oils, Greases, Ozone, Strong and Oxidizing Chemicals.	Ozone, Moderate Chemicals, Alkaline Solutions, Freons, Hydrogen, Alcohols, Aliphatic Hydrocarbons.	Animal and Vegetable Oil, Ozone, Strong and Oxidizing Chemicals.	All Aliphatic, Aromatic and Halogenated Hydrocarbons, Acids, Animal and Vegetable Oils	Most known Fluid Chemicals.
Generally Affected or Attacked by:	Ozone, Strong Acids, Fats, Oils, Greases, Most Hydrocarbons.	Many Solvents, Oils Concentrated Acids, Dilute Sodium Hydroxide.	Strong Oxidizing Acids, Esters, Ketones, Chlorinated, Aromatic and Nitro Hydrocarbons	Ozone, Ketones, Ester, Aldehydes, Chlorinated and Nitro Hydrocarbons.	Petroleum Solvents, Coal Tar Solvents, Aromatic Hydrocarbons.	Chlorinated Oxidizing Acids, Esters, Ketones, Chlorinated Aromatic and Nitro Hydrocarbons.	Mineral Oils and Solvents, Aromatic Hydrocarbons.	Ketone, Low Mole Weight Esters and Nitro Containing Compounds.	
Abrasion	Excellent	Poor	Excellent	Good	Good	Good	Good	Good	Good
Oxidation	Good	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Outstanding	Outstanding
Ozone	Poor	Outstanding	Good	Fair	Excellent	Excellent	Outstanding	Excellent	Outstanding
Sunlight Aging	Poor	Excellent	Very Good	Poor	Very Good	Outstanding	Outstanding	Very Good	Outstanding
Heat Aging	Good	Outstanding	Excellent	Good	Excellent	Excellent	Excellent	Outstanding	Outstanding
Flame	Poor	Poor	Outstanding	Poor	Fair	Excellent	Poor	Excellent	Outstanding
Oil	Poor	Fair	Good	Very Good	Poor	Good	Poor	Excellent	Outstanding
Fuel	Poor	Poor	Fair	Good	Poor	Fair	Poor	Excellent	Outstanding
Ketone/Esters	Good	Fair	Poor	Fair	Excellent	Fair	Excellent	Poor	Outstanding
Aliphatic Hydrocarbons	Poor	Poor	Good	Excellent	Poor	Fair	Poor	Excellent	Outstanding
Aromatic Hydrocarbons	Poor	Poor	Fair	Good	Fair	Fair	Fair	Excellent	Outstanding
Weather	Fair	Excellent	Excellent	Good	Excellent	Excellent	Excellent	Excellent	Outstanding
Water	Excellent	Good	Good	Good	Excellent	Very Good	Very Good	Very Good	Outstanding

Notes:

Viton, Teflon and Hypalon Are Registered Trademarks of E.I. DuPont de Nemours & Co, Inc.

Information Required For An Order Or An Inquiry

Use this check list as a guide before placing your order. It will assist you in supplying HOLZ RUBBER with the information needed to recommend the product that will give you the greatest possible service life at the lowest investment cost.

- PIPE SIZE OF APPLICATION:** Nominal pipe size or the inside diameter of the connecting pipe flange.
- INSTALLED LENGTH:** Space between connecting pipe flanges determines "Face-to-Face" dimension of expansion joint products.
- FLANGE DRILLING:** Unless specified otherwise, products are furnished drilled to 125/150 Lb. Standards: ANSI B16.1 and B16.5. Other drilling specifications are available. Include flange O.D., bolt circle, the number and diameter of bolt holes.
- MEDIUM PUMPED/PIPED:** Type and concentration of chemical-liquid-gas-vapor in the system. Advise if a slurry or solids are in suspension.
- ENVIRONMENT:** Degree of exposure to weathering, sunlight, chemicals, etc.
- TEMPERATURE RANGE:** Normal operating and maximum expected temperature of the pumped medium.
- PRESSURE AND/OR VACUUM RANGE:** Normal Operating and design pressure and/or vacuum of line.
- MOVEMENTS:** Maximum movements in compression, extension, lateral deflection, angular and torsional.
- RETAINING RINGS:** Are required on all installations. Reusable, they need not be ordered with replacement or spare expansion joints.
- CONTROL RODS:** Are recommended for use with all expansion joint products. Control units must be used when piping support or anchoring is insufficient.