TECHNICAL DATA

TECHNICAL DATA CHEMICAL RESISTANCE TABLE

The chemical guide in this section is offered as a general indication of the compatibility of the various materials used in hose with the chemicals and fluids listed. The basis for the ratings in this guide includes actual service experience, the advice of various polymer suppliers, and the considered opinion of our rubber chemists. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle. Some of the variables that come into play in the resistance of a compound to chemical attack are:

1. Temperature of the Material Transmitted:

Higher temperatures increase the effect of chemicals on rubber compounds. The increase varies with the polymer and the chemical. A compound quite suitable at room temperature might fail very quickly at higher temperatures.

2. Service Conditions:

A rubber compound usually swells when exposed to a chemical. With a given percent of swell, a hose tube may function satisfactorily if the hose is in a static condition, but fail quickly if the hose is subject to flexing.

3. The Grade or Blend of the Rubber Compound:

Basic rubber polymers are sometimes mixed or blended together to enhance a particular property for a specific service. The reaction to a particular chemical blend of polymers may, therefore, be somewhat different from the reaction to the single ones. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle.

COMMON NAME	ASTM Designation D1418-93	COMPOSITION	GENERAL PROPERTIES
Natural rubber	NR	Isoprene rubber	Excellent physical properties, including abrasion resistance. Not oil resistant.
SBR	SBR	Styrene-butadiene rubber	Good physical properties, including abrasion resistance. Not oil resistant.
Butyl rubber	IIR	lsobutene-isoprene rubber	Very good weathering resistance. Low permeability to air. Good physical properties. Poor resistance to petroleum based fluids.
EPDM	EPDM	Ethylene-propylene-diene- terpolymer	Good general purpose polymer. Excellent heat, ozone and weathering resistance. Not oil resistant.
Cross linke polyethylene	XLPE	Cross linked polyethylene	Excellent resistance to most solvents, oils and chemicals. Do not confuse with chemical properties of standard polyethylene.
Ultra high molecular weight polyethylene	UHMWPE	Ultra high molecular weight polyethylene	Excellent resistance to most solvents, chemicals and hydrocarbons. Excellent abrasion and wear resistance. Inert and suitable for food contact. Do not confuse with chemical properties of standard polyethylene.
Nitrile rubber	NBR	Acrylonitrile-butadiene	Excellent oil resistance. Good physical properties.
Neoprene	CR	Chloroprene rubber	Excellent weathering resistance. Flame retardant. Good oil resistance. Good physical properties.
Hypalon®	CSM	Chloro-sulfonated	Excellent ozone, weathering and acid resistance. Good abrasion and heat resistance. Can be compounded for good oil resistance.

CHEMICAL RESISTANCE OF HOSE COMPOUNDS



The following data is based on tests and believed to be reliable; however, we emphasise that the tabulation should be used as a guide only, since it does not take into consideration all variables such as elevated temperatures, fluid contamination, concentration, etc. that may be encountered in actual use. All critical applications should be tested.

Note: All data based on 68°F (20° C) unless otherwise noted.

COMPOUND						ш			
CHEMICAL OR MATERIAL CONVEYED	R	SBR	II	EPDM	XLPE	UHMWPE	NBR	ся	CSM
Acetaldehyde	F	X	E	E	E	E	X	С	F
Acetic Acid, Glacial	С	X	G	G	E	E	X	F	С
Acetic Acid, 10%	G	F	G	E	E	E	E	E	E
Acetic Acid, 50%	X	F	G	E	E	E	F	F	E
Acetic Anhydride	F	X	c	G	E	E	X	G	E
Acetic Oxide	F	X	G	G	E	E	X	G	E
Acetone	c.	c	E	E	E	E	X	С	X
Acetone Cyanohydrin	F	0	E	E		-	X	G	F
Acetonitrile	G		E	E			X	E	G
Acetophenone	c	x	G	E	E	E	X	X	x
Acetyl Acetone	x	X	E	E	-	-	X	X	X
	-								
Acetyl Chloride	X F	Х	X G	X G	F	F	X	X G	C E
Acetyl Oxide	C	F	E	E	E	E	X E	E	E C
Acetylene	-	F X	F	E C	C	-		-	
Acetylene Dichloride	X X	×	F X	C			X X	X C	X X
Acetylene Terachloride	-	-		-					
Acrolein	G	F	E	E	-	-	F	G	G
Acrylonitrile	С	F	X	E	E	E	X	X	С
Acrylic Acid	X			X		_	X	X	G
Adipic Acid	E		X	C	E	E	E	E	G
Air, +300 °F	X	Х	G	G			G	G	G
Alk-Tri	X		X	X			X	Х	Х
Allyl Alcohol	E		E	E	E	E	E	E	E
Allyl Bromide	X		Х	X			Х	Х	Х
Allyl Chloride	X	E	С	X	Е	F	G	Х	Х
Alum	E		E	G	E	E	С	E	E
Aluminium Acetate	E	Х	G	E			С	С	F
Aluminium Chloride	Е	Е	Е	E	Е	Е	Е	Е	Е
Aluminium Fluoride	E	Е	Е	E	Е	Е	Е	Е	E
Aluminium Formate	Х		G	E			Х	Е	Х
Aluminium Hydroxide	Е	G	Е	E	Е	Е	Е	Е	Е
Aluminium Nitrate	Е	Е	Е	E			Е	Е	Е
Aluminium Sulfate	E	G	А	E	Е	Е	Е	G	Е
Amines-Mixed	С	G		G			Х	С	Х
Aminobenzene	X	Х	Е	С	Е	Е	Х	Х	С
Aminodimethilbenzene	X		G	С			С	Х	F
Aminoethane	С	Х	G	E	Е	Е	С	С	F
Aminoxylene	X		G	E			С	Х	Х
Ammonium Carbonate	E	Е	Е	E			С	Е	С
Ammonium Chloride	E	Е	Е	E	Е	Е	G	Е	E
Ammonium Hydroxide	G	Х	G	E	Е	Е	С	Е	E
Ammonium Nitrate	E	E	E	E	Е	Е	Е	E	E
Ammonium Phosphate, Dibasic	E	Е	E	E	Е	Е	Е	Е	E
Ammonium Sulfate	E	G	E	E	E	E	E	E	E
Ammonium Sulfide	E	G	E	E	E	E	c	E	E
Ammonium Thiosulfate	E	-	E	E	-	-	С	E	E
Amyl Acetate	C	х	G	C	Е	Е	x	X	X
Amyl Acetone	x		G	G	-	-	x	X	X
Amyl Alcohol	c	G	E	E	E	E	C	c	Ē
	-	9	X	C	_ C	_ C	x	X	X
Amyl Bromide	X	v			F	-			
Amyl Chloride	X	Х	X	X	E	E	X	X	X
Amyl Ether	X		X	X			C	X	F
Amylamine	F		G	X			F	С	F
Anethole	X		X	X			X	X	Х
Aniline	X	Х	E	С	Е	E	X	Х	С
				-					

Aniline Dyes C G G C <t< th=""><th>COMPOUND</th><th></th><th></th><th></th><th>_</th><th></th><th>VPE</th><th></th><th></th><th></th></t<>	COMPOUND				_		VPE			
Aniline OilXXXXCCEEXXAnilinal FatsXXXCCEECCAAnilinal FatsXXXCCCXXCCAAqua RegiaXXXCGCXXZCAArgonXXXXXXZCZCZCAstmatic AcidXXXXXXXXXZZ <th></th> <th>R</th> <th>SBR</th> <th>R</th> <th>EPDM</th> <th>XLPE</th> <th>UHMWPE</th> <th>NBR</th> <th>СR</th> <th>CSM</th>		R	SBR	R	EPDM	XLPE	UHMWPE	NBR	СR	CSM
Animal FatsXXXCCEECAntimony PentachlorideXXCCCZXXXAqua RegiaXXXCCZXXXXArgonXCCEEEEZZ <td< td=""><td>Aniline Dyes</td><td>С</td><td>G</td><td>G</td><td>С</td><td>Е</td><td>Е</td><td>Х</td><td>С</td><td>G</td></td<>	Aniline Dyes	С	G	G	С	Е	Е	Х	С	G
Antimony PentachlorideXXXCCKXX <t< td=""><td>Aniline Oil</td><td>X</td><td>Х</td><td>G</td><td>С</td><td>Е</td><td>Е</td><td>Х</td><td>Х</td><td>С</td></t<>	Aniline Oil	X	Х	G	С	Е	Е	Х	Х	С
Aqua RegiaXXXCCCXXXXXArgonXCCGEEEEECAAsphaltXXXXXXXXZCAAstm Fuel AXXXXXXXXZZZAAstm Fuel CXXXXXXXZZZZAAstm Oil No.1XXXXXXXZZ <td>Animal Fats</td> <td>X</td> <td>Х</td> <td>С</td> <td>С</td> <td>Е</td> <td>Е</td> <td>Е</td> <td>С</td> <td>F</td>	Animal Fats	X	Х	С	С	Е	Е	Е	С	F
ArgonXCGEEEEEEEEEEEEEEEEEEEEECC	Antimony Pentachloride	X			С	Е	Е	Х	С	X
Arsenic AcidEEEEEEEEEEEEEECCAstm Fuel AXX	Aqua Regia	X	Х	С	С	Х	Х	Х	Х	С
AsphaltXX <td>Argon</td> <td>X</td> <td>С</td> <td>G</td> <td>Е</td> <td></td> <td></td> <td>Е</td> <td>G</td> <td>X</td>	Argon	X	С	G	Е			Е	G	X
Astm Fuel A X <td< td=""><td>Arsenic Acid</td><td>E</td><td>Е</td><td>Е</td><td>Е</td><td>Е</td><td>Е</td><td>Е</td><td>Е</td><td>E</td></td<>	Arsenic Acid	E	Е	Е	Е	Е	Е	Е	Е	E
Astm Fuel BXXX	Asphalt	X	х	Х	х	E	Е	С	С	F
Astm Fuel Cxxx	Astm Fuel A	X	х	х	х			E	С	С
Astm Oil No.1XXX <t< td=""><td>Astm Fuel B</td><td>x</td><td>х</td><td>х</td><td>х</td><td></td><td></td><td>С</td><td>х</td><td>x</td></t<>	Astm Fuel B	x	х	х	х			С	х	x
Astm Oil No.1XXXZZ <t< td=""><td>Astm Fuel C</td><td>X</td><td>x</td><td>x</td><td>x</td><td></td><td></td><td>С</td><td>Х</td><td>X</td></t<>	Astm Fuel C	X	x	x	x			С	Х	X
Astm Oil No.2XXX <t< td=""><td></td><td>-</td><td><u> </u></td><td></td><td></td><td>E</td><td>E</td><td>E</td><td>E</td><td>с</td></t<>		-	<u> </u>			E	E	E	E	с
Astm Oil No.3XXX <t< td=""><td></td><td>x</td><td>x</td><td></td><td></td><td>E</td><td>E</td><td>E</td><td>С</td><td>x</td></t<>		x	x			E	E	E	С	x
Astm Oil No.4XXX <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>c</td></t<>		-								c
Automatic Trasmission FluidXX <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>x</td>		-				-	-			x
Banana OIXXCCCXXXXBarium ChlorideEEE <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>c</td></td<>		-								c
Barium ChlorideEEE		-				-				c
Barium HydroxideEEE <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td>		-				-	-			-
Barium SulphideEGEEE		-		-						E
BeerEEEBenzorichorideXX	•	-								E
Beet Sugar LiquorsEEE </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E</td>		-								E
Benzal ChorideImage: Constraint of the symbol o		-								E
BenzaidehydeXXXGEEXXXZBenzeneXXXXCEFXXZZBenzene Carboxylic AcidXXXXXZZXXZZXZZZXZZ </td <td></td> <td>E</td> <td>E</td> <td></td> <td>E</td> <td>E</td> <td>E</td> <td></td> <td>С</td> <td>E</td>		E	E		E	E	E		С	E
BenzeneXXXXXCEFXCIBenzene Carboxylic AcidXXXECXXZECXXEECXXEECXXZEECXXZEEZXXZEEZXXZZZ </td <td></td>										
Benzene Carboxylic AcidXX <t< td=""><td>Benzaldehyde</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></t<>	Benzaldehyde	X	X							X
BenzineImage: section of the sectin of the section of th	Benzene	X	Х	Х	С	E	F	Х	С	С
Benzoic AcidXXX <th< td=""><td>Benzene Carboxylic Acid</td><td>X</td><td></td><td>E</td><td>С</td><td></td><td></td><td>Х</td><td>Е</td><td>С</td></th<>	Benzene Carboxylic Acid	X		E	С			Х	Е	С
BenzolXXXXCEFXCBenzotrichlorideXXZEEZXXZXXX	Benzine		Х	Х	Х	E	E	E	С	С
BenzotrichlorideXXX <td>Benzoic Acid</td> <td>X</td> <td>Х</td> <td>С</td> <td>С</td> <td></td> <td></td> <td>Х</td> <td>Е</td> <td>С</td>	Benzoic Acid	X	Х	С	С			Х	Е	С
Benzyl AcetateXXEEXXEZBenzyl AlcoholXXXZCXXX <td>Benzol</td> <td>X</td> <td>Х</td> <td>Х</td> <td>С</td> <td>E</td> <td>F</td> <td>Х</td> <td>С</td> <td>С</td>	Benzol	X	Х	Х	С	E	F	Х	С	С
Benzyl AlcoholXXXECIXXCBenzyl ChlorideXXX <td>Benzotrichloride</td> <td>X</td> <td></td> <td></td> <td>Е</td> <td></td> <td></td> <td>Х</td> <td>Х</td> <td>X</td>	Benzotrichloride	X			Е			Х	Х	X
Benzyl ChlorideXXX	Benzyl Acetate	X		Е	Е			Х	Е	G
Benzyl EtherXXXGCIXXXXBlack Sulfate LiquorGGGGGGFEGGIBlack Sulfate LiquorCXYEEGFXZIBlack Sulfate LiquorCXYEEGFXZIBlachCXYEEEEEEZIIIBorax SolutionCXKEEEEEEEEIII	Benzyl Alcohol	X	Х	Е	С			Х	С	С
Black Sulfate LiquorGGGGGEEGGGBleachCXEEGFXCIBorax SolutionCGFEEE <td>Benzyl Chloride</td> <td>X</td> <td>Х</td> <td>Х</td> <td>Х</td> <td></td> <td></td> <td>Х</td> <td>Х</td> <td>X</td>	Benzyl Chloride	X	Х	Х	Х			Х	Х	X
BleachCXEEGFXCBorax SolutionCKFEE </td <td>Benzyl Ether</td> <td>X</td> <td>Х</td> <td>G</td> <td>С</td> <td></td> <td></td> <td>Х</td> <td>Х</td> <td>X</td>	Benzyl Ether	X	Х	G	С			Х	Х	X
Borax SolutionCGEEE<	Black Sulfate Liquor	G	G	G	G	Е	E	G	G	G
Boric AcidEE	Bleach	С	Х	Е	Е	G	F	Х	С	E
Brake Fluid (Hd-557)12 DaysXEEEEZVCCCBrineEXXX	Borax Solution	С	G	E	E	E	Е	С	Е	E
BrineEIEE	Boric Acid	E	E	E	E	E	E	E	Е	E
BrineEIEE	Brake Fluid (Hd-557)12 Days	X	E	E	E			С	С	с
Bromobenzene X <		E		E	Е	E	Е	E	Е	E
BromochlorometaneXXXCGFFXXXBromochlaneCXCXCXECXXXBromotolueneXX <td></td> <td>X</td> <td>x</td> <td>x</td> <td>x</td> <td></td> <td></td> <td>x</td> <td>х</td> <td>x</td>		X	x	x	x			x	х	x
Bromoethane C X C X E E C X I Bromotoluene X X X X X X X X X I </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>F</td> <td>F</td> <td></td> <td></td> <td>X</td>		-				F	F			X
Bromotoluene X <t< td=""><td></td><td>-</td><td>×</td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td></t<>		-	×							X
Bunker Oil X		-				-	-	-		x
Butadiene X		-	v		v				G	C
Butane X <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>F</td> <td>F</td> <td></td> <td></td> <td>G</td>		-				F	F			G
Butanoic Acid C V X C V X X X Butanol E E C C E		-								C
Butanol E E C C E X X Z E E Z X Z <thz< th=""> Z <thz< th=""> <thz< th=""></thz<></thz<></thz<>		-	×			E				-
Butanone X X X E E E K X X Butoxyethanol X X C E X X X Butyl Acetate X X X X C E E X X X Butyl Acrylate X X X X X C E E X X		-	-			-	-			C
Butoxyethanol X X C E V C X Butyl Acetate X X C C E E X X Butyl Acetate X X X C E E X X Butyl Acrylate X X X C E E X X		-						-		E
Butyl Acetate X X X C C E E X X Butyl Acrylate X X X X C E E X X X		-	X			E	E			X
Butyl Acrylate X X X X C E E X X	•	-								G
		-								X
Butyl Alcohol E E C C E E E E		×	Х			E	E	Х	Х	×
	Dutil Market		E	C	C	E	E		E	E





COMPOUND				5		UHMWPE			
CHEMICAL OR MATERIAL CONVEYED	NR	SBR	۳	EPDM	XLPE	UHM	NBR	СR	CSM
Butyl Benzyl Phthalate	X		Е	Е	Е	Е	х	Е	Х
Butyl Carbitol	X	Х	E	E			X	Х	С
Butyl Cellosolve	X	X	C	С	E	E	C	X	G
Butyl Chloride	X	v	F	x c	-	-	X	X C	X
Butyl Ether Butyl Ether Acetaldehyde	X X	X	G	x	E	E	X X	x	X X
Butyl Ethel Acctandenyde	x		X	F			G	X	c
Butyl Oleate	x	x	c	c			X	X	X
Butyl Phthalate	X	х	G	E	E	Е	X	х	Х
Butyl Stearate	Х	Х	С	х	E	Е	С	Х	Х
Butylene	Х	Х	Х	Х			С	С	С
Butyraldehyde	X	Х	С	С	E	E	X	Х	Х
Butyric Acid	С	X	X	С	E	E	С	X	С
Butyric Anhydride	F		F	E			С	G	G
Cadmium Acetate	X		E				X		E
Calcium Aluminate Calcium Bichromate	E		E	E			E C	E	E F
Calcium Bisulfide	x	G	X	E			c	E	F
Calcium Chloride	E	E	E	E	E	Е	E	E	E
Calcium Hydroxide	E	E	E	E	E	E	E	E	E
Calcium Hypochlorite	c	X	E	E	E	E	c	С	E
Calcium Nitrate	Е	Е	Е	Е			Е	Е	Е
Calcium Sulfide	С	Х	Е	Е			Е	Е	Е
Calcium Acetate	Е	Х	E	Е			С	С	С
Caprylic Acid	С		F				F		G
Carbamide	E		E	E	E	E	G	G	E
Carbitol	С	E	С	С	E	E	С	С	С
Carbolic Acid Phenol	C	0	C	-	-	-	-	0	C
Carbon Dioxide Carbon Disulfide	G X	G	E X	G X	E	E C	E X	G X	E X
Carbon Monoxide	C C	G	Ē	E	E	E	Ē	C	^ C
Carbon Tetrachloride	x		X	X	E	E	X	x	x
Carbonic Acid	E	G	E	E	E	E	c	E	E
Castor Oil	E	Е	С	С	E	Е	E	Е	Е
Caustic Soda	Е	Е	Е	G	E	Е	С	G	Е
Cellosolve Acetate	С	Х	С	G	Е	Е	Х	Х	Х
Celluguard	Е	Е	E	Е			E	Е	Е
Cetylic Acid	С	G	С	С	E	Е	E	G	С
China Wood Oil	X	Х	С	Х	E	E	E	С	С
Chlorinated Solvents	X	Х	X	X	E	E	X	Х	X
Chloro-2-Propanone	X	v	C	0	-	-	~	v	X
Chloroacetic Acid Chloroacetone	X X	X X	C C	C E	E	E	X X	X X	G X
Chlorobenzene	x	X	x	X	E	E	x	X	X
Chlorobutane	X		F	X			X	X	X
Chlorodane	X	Х	X	х			С	С	С
Chloroethyl Benzene	X		X	х			С	х	Х
Chloroform	х	х	х	х	F	F	х	х	Х
Chloropentane	X		X	Х			X	Х	Х
Chlorosulfonic Acid	X	Х	X	X	F	X	X	X	Х
Chlorotoluene	X	Х	X	Х			X	X	Х
Chlorox	X	X	C	G			C	C	C
Chrome Plating Solutions	X	X	C	C	-	-	X	X	X
Chromic Acid Chromium Trioxide	C	X	C G	C C	E	E	X X	X X	E
Cinnamene	X X	X X	X	X	-		C X	X	X
Cis-9-Octadecenoic Acid	x	X	X	c	Е	E	G	c	° C
Citric Acid	E	E	E	E	E	E	E	E	E
Coal Tar Oil	x	×	×	×	E	E	E	G	F
Coal Tar	x	х	x	х	Е	Е	С	С	С
Coal Tar Naphtha	x		х	х	Е	Е	х	х	х
Coconut Oil	X	х	С	С	Е	Е	Е	С	С
Coke Oven Gas	С	X	С	X	E	E	X	Х	С
Coolanol	X	X	X	X	-	-	E	C	C
Copper Chloride	E	Е	E	Е	E	E	E	С	С

COMPOUND						VPE			
CHEMICAL OR MATERIAL CONVEYED	NR	SBR	Ħ	EPDM	XLPE	UHMWPE	NBR	cr	CSM
Copper Cyanide	Е	Е	Е	Е	Е	Е	Е	Е	Е
Copper Hydrate	F		Е				G		G
Copper Hydroxide	F		Е				G		G
Copper Sulfate	С	G	С	E	Е	Е	Е	Е	E
Corn Oil	Х	Х	С	С	Е	Е	Е	С	С
Cottonseed Oil	Х	Х	С	С	Е	Е	Е	С	С
Creosote	Х	Х	Х	Х	Е	Е	С	С	Х
Cresols	Х	Х	Х	Х	Е	Е	Х	Х	Х
Cresylic Acid	Х	Х	Х	Х	Е	Е	Х	Х	Х
Crotonaldehyde	Х	F	Е	E	Е	Е	Х	Х	Х
Crude Oil	Х	Х	Х	X	Е	Е	С	С	С
Cumene	Х	Х	Х	Х			Х	Х	Х
Cupric Hydroxide	F		Е				G		G
Cupric Nitrate	G		Е	С	Е	Е	С	Е	Е
Cupric Sulfate	С	G	С	E	Е	Е	Е	Е	Е
Cutting Oil	С	Х	Х	Х			Е	С	С
Cyclohexane	Х	х	х	X	Е	Е	Е	Х	С
Cyclohexanol	С	х	х	X	Е	Е	G	С	С
Cyclohexanone	X	Х	С	С	E	E	X	X	X
Cyclopentane	x		X	X	· ·		G	С	X
Cyclopentanone	X		X				X	-	X
Cyclopentil Alcohol	~			с	-		X	F	
D-Furaldehyde	x		С	E			G	F	С
Ddt In Kerosene	X	х	x	X			E	C	c
					Г	г		-	
Decahydronaphthalene	X	E	X	X	E	E	X	X	X
Decalin	X	E	X	X	E	E	X	X	X
Decyl Alcohol	Х		Х	X			E	Х	С
Decyl Aldehyde	Х		F	X			Х		Х
Decyl Butyl Phthalate	Х		E				Х		Х
Detergent, Water Solution	E	G	E	E	E	E	E	С	С
Developing Fluid	E	G	С	С			E	E	E
Dextron	Х	Х	Х	X			E	С	Х
Di (2Ethylhexyl) Adipate	Х		Е	G	G	G	Х	Х	Х
Di (2Ethylhexyl) Phthalate	Х	Х	С	С	Е	Е	Х	Х	Х
Di-Iso-Butylene	Х	Х	Х	Х	Е		С	С	Х
Di-Iso-Decyl Phthalate	Х		Е	E			Х	Х	Х
Di-Iso-Propanolamine	G		Е	E			G	G	F
Di-Iso-Propyl Ether	Х		Х	Х	Е	Е	G	С	С
Di-Iso-Propyl Ketone	Х	Х	Е	E	Е		Х	Х	Х
Di-P-Mentha-1,8-Diene	х		х	х			С	х	X
Diacetone Alcohol	х	х	Е	E	Е	Е	х	F	С
Diacetylmethane		X	E	E	-	-	X	X	X
Diammonium Orthophosphate			-	E			E	E	
Diamyl Naphthalene	x	-	E	-	Е	Е	-	-	x
Diamylamine	G	x	E	E	-	-	G	С	C
Diamylanine	X	~	X	X		-	- 3	x	x
Diamylphenol	x		X		Е	Е	x	^	×
		v		C		-		~	
Dibenzyl Ether	X	Х	C	C		-	X	X	X
Dibromobenzene	X		X	X			X	X	X
Dibromomethane	X		X	C	-	-	X	X	X
Dibutyl Ether	Х	Х	С	С	E	E	Х	С	Х
Dibutyl Phthalate	Х	Х	С	С	E	E	Х	Х	Х
Dibutyl Sebacate	Х	Х	С	С	E	E	Х	Х	Х
Dibutylamine	Х	Х	Х	F			Х	С	С
Dicalcium Phosphate	Е		Е	E			Е	Е	E
Dichloroethylene	Х		С	С	F	F	Х	Х	Х
Dichloroacetic Acid	Х	Х	С	Х	Е	Е	Х	Х	Х
Dichlorobenzene	Х	Х	Х	Х			Х	Х	Х
Dichlorobutane	х	х	х	х			С	х	Х
Dichlorodifluoromethane	С	E	С	С	E	G	С	С	С
Dichloroethane	x	х	С	x	Е	E	x	х	Х
Dichloroethyl Ether	X		X	X	-	-	X	X	X
		-				-		-	
Dichlorohexane	X		X	X			X	X	X



TECHNICAL DATA

TECHNICAL DATA CHEMICAL RESISTANCE TABLE

COMPOUND						Ш			
CHEMICAL OR MATERIAL CONVEYED	R	SBR	R	EPDM	XLPE	UHMWPE	NBR	сR	CSM
Dichloropentane	x	x	x	x			x	x	x
Dichloropropane	X		Х	X	G	G	F	Х	X
Dichloropropene	Х		Х	Х	G	G	С	Х	Х
Diesel Oil	Х	Х	Х	Х	Е	Е	Е	С	С
Diethanol Amine	G	Х	Е	G			С	G	F
Diethylbenzene	X	Х	Х						Х
Diethyl Ether	X	Х	X	X	E	E	X	X	X
Diethyl Ketone	X		G	G	E	E	X	X	X
Diethyl Oxalate Diethyl Phthalate	FX		X X	X F	E	E	X X	X X	X X
Diethyl Sebacate	X	х	G	F	L	L	c	X	F
Diethyl Sulfate	x	E	c	E			x	E	X
Diethyl Amine	C	G	С	c	Е	Е	С	c	С
Diethylene Glycol	E	Е	E	Е	Е	Е	E	Е	Е
Diethylene Oxide	X		Х	Е			х	х	х
Diethylenetriamine	G	Х	Е	E			G	Х	F
Dihydroxy Succinic Acid	Е		G	G			G	G	Е
Dihydroxydiethyl Ether	Е		Е	Е	Е	Е	Е	Е	Е
Diisobutyl Ketone	X	Х	G	Е	Е	Е	Х	Х	Х
Diisodecyl Phthalate	X		E	E	Е	E	Х	X	X
Diisooctyl Adipate	X		E	E	-	_	X	X	X
Diisooctyl Phthalate	X		E	G	E	E	X	X	X
Dimethyl Carbinol Dimethyl Ketone	E	F	E	E	E	E	C X	G C	E X
Dimethyl Phthalate	x	X	C	C	E	E	X	x	X
Dimethyl Sulfate	x	~	G	x	E	E	X	x	x
Dimethyl Sulfide	X		F	X	_		X	X	X
Dimethylamine	G	х	G	Е	Е	Е	F	х	х
Dimethylaniline	X	Х	G	Е			Х	Х	Х
Dimethylbenzene	Х	Х	Х	Х			Х	Х	Х
Dimethylbutane	Х		Х						Х
Dioxane	X	Х	С	С	Е	Е	Х	Х	Х
Dipentene	X	Х	Х	X			С	X	Х
Dipentylamine	G	X	E	E			G	С	С
Dipropylene Glycol	E		E	E			E	E	E
Disodium Phosphate Divinyl Benzene	E X	Х	E X	E X			E X	E X	E X
Dowthermn, A And E	X	X	X	X			X	X	C
Dry Cleaning Fluids	x	X	X	X			c	X	x
Ethanoic Acid		G		С	E	E	С	С	
Ethanol	E	Е	E	E	E	Е	С	Е	Е
Ethanolamine	С	х	С	Е			С	С	С
Ethers	Х	Х	Х	Х	Е	Е	F	Х	Х
Ethyl Acetate	Х	Х	С	С	Е	Е	Х	Х	Х
Ethyl Acetoacetate	С	F	С	С			Х	Х	Х
Ethyl Acetone	X		G	G			Х	Х	Х
Ethyl Acrylate	X	X	С	С			Х	X	X
Ethyl Alcohol	E	E	E	E	E	E	C	E	E
Ethyl Aldehyde	C		E	E	E	E	X	X	F
Ethyl Aluminium Dichloride Ethyl Benzene	X X	v	X	v	E	E	X X	X	X X
Ethyl Bromide	C	X X	X X	X X	E	E	^ C	X	X
Ethyl Butyl Acetate	x	~	E	~	-	-	X	~	G
Ethyl Butyl Alcohol	E	<u> </u>	E						E
Ethyl Cellulose	c	G	c	С	E	Е	С	С	C
Ethyl Chloride	С	G	Е	С	E	Е	Е	x	С
Ethyl Dichloride	х	х	F	х	Е	Е	х	х	х
Ethyl Ether	х	х	х	х	Е	Е	х	х	х
Ethyl Formate	Х	Х	С	С			Х	С	С
Ethyl Iodide	X		F	F	Е	Е	Х	Х	Х
Ethyl Oxalate	E	х	х	Е			х	х	х
Ethyl Phthalate	X		Х	F	E	E	Х	X	Х
Ethyl Silicate	C	G	E	E			E	E	
Ethyl-N-Butyl Ketone	Х	G	G				Х	Х	X

COMPOUND						WPE			
CHEMICAL OR MATERIAL CONVEYED	R	SBR	≝	EPDM	XLPE	UHMWPE	NBR	К	CSM
Ethyl-1-Butanol	Е		E	Е			Е	Е	Е
Ethylamine	С	Х	С	Е			С	С	F
Ethylene Chlorohydrin	С	G	С	С			Х	С	С
Ethylene Diamine	С	G	Е	Е	Е	Е	С	Е	С
Ethylene Dibromide	Х	Х	С	С	F	F	Х	Х	Х
Ethylene Dichloride	Х	Х	С	Х	F	F	Х	Х	Х
Ethylene Glycol Monobutyl Ether	X	Х	E	E	E	E	F	Х	С
Ethylene Glycol Monoethyl Ether	Х		С	С	E	E	С	Х	Х
Ethylene Glycol	E	E	E	E	E	E	E	E	E
Ethylene Oxide	Х	Х	С	С	E	E	Х	Х	Х
Fatty Acids	X	Х	С	Х	E	G	С	С	С
Ferric Bromide	E		E				E		Е
Ferric Chloride	E	E	E	E		E	E	С	С
Ferric Nitrate	E	E	E	E		E	E	E	E
Ferric Sulfate	E	E	E	E		E	E	E	E
Ferrous Acetate	Х		Е	G			Х	Х	Е
Ferrous Chloride	Е		E	Е		Е	Е	Е	Е
Ferrous Sulfate	Е	Е	Е	Е		Е	Е	Е	Е
Fluoroboric Acid	Е	Е	С	Е	E	Е	Е	Е	Е
Fluorine	X		Х	Е	G	G	Х	Х	Х
Fluorosilicic Acid	Е	G	E	Е	E	Е	Е	Е	Е
Formaldehyde	С	G	С	С	Е	Е	С	С	С
Formalin	С	G	С	Е	Е	Е	G	G	С
Formic Acid	С	Е	E	Е	E	Е	С	С	Е
Freon 113	С	G	Х	Х			E	E	С
Freon 12	X	Е	Х	С	F	G	С	С	Е
Freon 22	С	Е	С	С	F	Е	Х	Е	Е
Fuel A	Х		Х	Х			Е	С	С
Fuel B	Х		Х	Х			С	Х	Х
Fuel Oil	Х	Х	Х	Х	Е	Е	Е	С	С
Furan	X	Х	Х	Х	E	Е	Х	Х	Х
Furfural	Х	Х	С	С	E	Е	Х	Х	С
Fuel A (Astm)	X	Х	Х	Х			E	С	Х
Fuel B (Astm)	Х	Х	Х	Х			С	Х	Х
Fuel Oil	X	Х	Х	Х	E	E	E	С	С
Furan	X	Х	Х	Х	E	Е	Х	Х	Х
Furfural	Х	Х	Е	С	Е	Е	Х	Х	Х
Furfuran	Х	Х	Х	Х	E	E	Х	Х	Х
Furfuryl Alcohol	X	Х	С	С	E	E	Х	Х	Х
Gallic Acid	E	G	С	С	E	E	С	С	С
Gallotannic Acid	Е		G	Е				E	Е
Gasoline	С	Х	С	Х	E	E	E	Х	С
Glacial Acrylic Acid	X		X	Х			Х	Х	G
Gluconic Acid	X		F	Е			С	Е	G
Glucose	E	E	E	E	E	E	E	С	Е
Glycerine	E	E	E	E	E	E	E	E	Е
Glycerol	E	Е	E	Е	E	Е	E	Е	Е
Glycogenic Acid	X		F	E			F	Е	G
Glycols	E	E	E	E	E	E	E	E	E
Glyconic Acid	X		F	E			F	E	G
Glyclyl Alcohol									
Grease	X	x	x	X			E	F	С
Green Sulphate Liquor	С	G	E	E			С	С	G
Helium	E	E	E	E			E	E	E
Heptaldehyde	X	X	С	c			E	С	X
Heptanal	X	X	С	С			E	С	X
Heptane	X	X	X	X		E	E	C	С
Heptanoic Acid	X		X	X		-	E	C	C
Hexadecanoic Acid	E	G	G	G	E	E	E	x	x
Hexaldehyde	X	X	c	c	E	E	X	c	c
Hexane	X	X	x	X	E	E	E	c	c
Hexanol	E	^ E	^ C	^ C	E	E	C	c	c
Hexanol				x		E	c	c	c
	X	X	X		-	-	<u> </u>		
Hexyl Alcohol	E	E	С	С	E	E	С	С	С





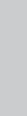
Nexy Methyl Ketone N C G	COMPOUND						VPE			
HexyamineFIGG <thg< th="">GGGGG<!--</th--><th></th><th>R</th><th>SBR</th><th>R</th><th>EPDM</th><th>XLPE</th><th>UHMWPE</th><th>NBR</th><th>В</th><th>CSM</th></thg<>		R	SBR	R	EPDM	XLPE	UHMWPE	NBR	В	CSM
Haxyahen GiyoodhEII <td>Hexyl Methyl Ketone</td> <td>х</td> <td></td> <td>G</td> <td>G</td> <td></td> <td></td> <td>Х</td> <td>С</td> <td>Х</td>	Hexyl Methyl Ketone	х		G	G			Х	С	Х
Histowar X<	Hexylamine	F		G				F	G	F
Hydraulic & Molor OilXXXCCEEVCC					F			С	E	
Hydrazine C G C E E E E E Z C						-	-	-		
Hydrobromic Acid E N E N C <thc< th=""> <thc< th=""> <thc< th=""> <</thc<></thc<></thc<>						E	E			
Hydrocloric AcidCNCNCNCNCNCNCNCNN <td></td> <td></td> <td></td> <td></td> <td></td> <td>F</td> <td>F</td> <td></td> <td></td> <td></td>						F	F			
Hydrocyanic AcidCCC <td></td>										
Hydrogluosilicic Acid E G E						-	-			
Hydrogen Chloride AnhydrousXXXKKK <td>Hydrofluoric Acid</td> <td>С</td> <td>х</td> <td>С</td> <td>С</td> <td>Е</td> <td>Е</td> <td>С</td> <td>С</td> <td>Е</td>	Hydrofluoric Acid	С	х	С	С	Е	Е	С	С	Е
Hydrogen DioxideGGG <td>Hydrofluosilicic Acid</td> <td>Е</td> <td>G</td> <td>Е</td> <td>Е</td> <td>Е</td> <td>Е</td> <td>Х</td> <td>С</td> <td>Е</td>	Hydrofluosilicic Acid	Е	G	Е	Е	Е	Е	Х	С	Е
Normal C G <td>Hydrogen Chloride Anhydrous</td> <td>Х</td> <td>Х</td> <td>E</td> <td>Е</td> <td></td> <td></td> <td>Х</td> <td>С</td> <td>Е</td>	Hydrogen Chloride Anhydrous	Х	Х	E	Е			Х	С	Е
Hydrogen Peroxide Over 10% C X X C <thc< th=""> <thc< td="" th<=""><td>Hydrogen Dioxide</td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td>-</td></thc<></thc<>	Hydrogen Dioxide			-	-					-
Hydrogen Peroxide 10% G X X E E E E E E E E E E X X E E E E X X E E E I X X C C C Z X X Z C C C Z X X C C C I X X Z X Z X Z X Z <thz< th=""> Z Z <thz< th=""></thz<></thz<>										
Hydrogen SulfideXXXEEEXXEBHydroxy BenzeneCXCCCCXXCFHydroxylsobutyronirileCXXCCCZZ<										
Hydroxy BenzeneCICICICIIIXXCIHydroxyloueneXXXCCIII <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				<u> </u>						
HydroxylouerneCII<			^			-	-		-	
Hydroxytoluene X X C C X X C G X X X G		-								
Iminodi-2-Propanol G K E E L L L G G L L L G G C G L L C G F Iodine X K K K X			x							
IodineXKKK <td></td>										
Iodine PentafluorideXXX	Iminodiethanol	С	х	С	G			С	G	F
IdeoformXX </td <td>lodine</td> <td>Х</td> <td>G</td> <td>С</td> <td>С</td> <td>Е</td> <td>Е</td> <td>С</td> <td>С</td> <td>С</td>	lodine	Х	G	С	С	Е	Е	С	С	С
Iso-ButanalXGVGEEXFIso-ButylamineXX <t< td=""><td>Iodine Pentafluoride</td><td>Х</td><td>Х</td><td>Х</td><td>Х</td><td></td><td></td><td>Х</td><td>Х</td><td>Х</td></t<>	Iodine Pentafluoride	Х	Х	Х	Х			Х	Х	Х
Iso-ButylamineFIKKKKXXX<	lodoform	Х		Х	Е			Е	Х	Х
Iso-Butylbromide X			G			E	E			
Iso-Buty/carbinolXXXXXXXEECXXIsooctaneXX<										
IsocyanatesFIGGEECXXIsooctaneXXXXXZEEEECCIsopropyl AcetateXXXCCEEEEEEEEEEEEEEEEEEEEEEEEFCCCEIsopropyl AlcoholEXXXXXXXXXZEECCZZJJJEEXXXXZEEXXXJJEFAXX </td <td></td>										
IsooctaneXXXXXXEECCCIsopropyl AlcoholEKXXCCEEKXXIsopropyl AlcoholEEEEEEEEEECCEIsopropyl EtherXXXXXXXKEECCXJp-4 OilXXXXXXKEECCCKeroseneXXXXKEECCCCLLCCLCCLCCCCLCCCLLCCCCLLCCCCCCCCCCCCLLLCCCCCCLLLCCCCLLLCCCCLLLCCCCLLLLCCCCLLLLCCCLLLLCCCLLLLCCCLLLLLLLLLLLLLLLLLLLL<				<u> </u>		F	F			<u> </u>
Isopropyl AcetateXXXCCEEEEEEEEECCCEIsopropyl EtherXXXXXXXXXXXZZZ			x	<u> </u>						
Isopropyl AlcoholEEEEEEEECCCEIsopropyl EtherXX									-	
Jet Fuels X <	Isopropyl Alcohol	Е	Е	E	Е	E	Е	С	С	E
Jp-4 OliXX </td <td>Isopropyl Ether</td> <td>Х</td> <td>Х</td> <td>Х</td> <td>Х</td> <td>E</td> <td>Е</td> <td>G</td> <td>Х</td> <td>С</td>	Isopropyl Ether	Х	Х	Х	Х	E	Е	G	Х	С
KeroseneXXXXXXEECCCKetonesCEGEGECC <t< td=""><td>Jet Fuels</td><td>Х</td><td>Х</td><td>X</td><td>Х</td><td>E</td><td>Е</td><td>С</td><td>С</td><td>X</td></t<>	Jet Fuels	Х	Х	X	Х	E	Е	С	С	X
KetonesCEGEGECCCCLacquer SolventsXX	Jp-4 Oil			<u> </u>						
Lacquer SolventsXXX <td></td>										
Latic Acid - ColdEGEGECGGCCCELactic Acid - HotEXXECGGCCELardXXXCCCEZCCZZLavender OilXXXXXXXZCCXXLead AcetateEXEEE<						<u> </u>				
Lactic Acid - HotEXEXECGGCCCLardXXXCCEEECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCLLLCCXXXXXXCCCXXLLCCXXLLCCXXLLCCXXXLLLLCXXXLL<										
LardXX<										
Lavender OilXXX <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										
Lead AcetateEXEEEECCXLead NitrateEEE <td< td=""><td></td><td></td><td></td><td></td><td></td><td>_</td><td>_</td><td></td><td>-</td><td></td></td<>						_	_		-	
Lead SulfateEIEEE <th< td=""><td>Lead Acetate</td><td>Е</td><td></td><td>E</td><td></td><td>E</td><td>Е</td><td>С</td><td></td><td></td></th<>	Lead Acetate	Е		E		E	Е	С		
LimeEIEEEEEGGGGLime BleachCFEE <t< td=""><td>Lead Nitrate</td><td>Е</td><td>Е</td><td>Е</td><td>Е</td><td></td><td></td><td>Е</td><td>Е</td><td>Е</td></t<>	Lead Nitrate	Е	Е	Е	Е			Е	Е	Е
Lime BleachCEEEELCCCELime SulfurCXXEE	Lead Sulfate	Е		Е	Е	Е	Е	Е	Е	Е
Lime SulfurCXEEEEEEEEELimoneneXXXXXXXXXXXXLinoleic AcidXXX<	Lime			E	Е	E	Е			G
Limonene X										
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			X			E	E			
Linseed Oil X X X X X X Z E E E C C C Liquid Petroleum Gas X X X X X X X Z E E E G C Lubricating Oil X X X X X X Z E E C C C C L Lubricating Oil X X X X X E E E C C G Z L L C G C L L K X X X X E E E E K X <t< td=""><td></td><td></td><td>×</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			×							
Liquid Petroleum Gas X X X X X X E E E G C Lubricating Oil X X X X X X Z E E C C C C Lys Solutions E G E G E G E E E E Z X X X X X X Z E E E C G C G E E Magnesium Acetate X X X E						F	F			
Lubricating Oil X X X X X X E E C C C C Lye Solutions E G E G E G E G E G E G E G E G E G E G E G E G F Magnesium Acetate X X X E <t< td=""><td></td><td></td><td></td><td><u> </u></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td></t<>				<u> </u>		<u> </u>				
Lye Solutions E G E G E G L C G E Mek X X X E E E E X X X Magnesium Acetate X X X E G L X X E Magnesium Chloride E		-								
Mek X X X E E E E X X X Magnesium Acetate X X X E G - X X E Magnesium Chloride E										
Magnesium Chloride E C C C E E Magnesium Hydroxyde C C C C E Z Z	•					Е	Е			
Magnesium Hydrate C G E E E E C C E Magnesium Hydroxyde C G E E E E E C C E Magnesium Sulfate C G E X <	Magnesium Acetate	Х	x	E	G			Х	X	Е
Magnesium Hydroxyde C G E E E E C C E Magnesium Sulfate C G E A X	Magnesium Chloride	Е	Е	Е	Е	Е	Е	Е	Е	Е
Magnesium Sulfate C G E Main A X	Magnesium Hydrate	С	G	Е	Е	Е	Е	С	С	E
Maleic Acid X X X X C E E X X X Maleic Anhydride X X X C C C X </td <td></td>										
Maleic Anhydride X X X C C I X X X Malic Acid E G X C C C E C <td></td>										
Malic Acid E G X C C E C C				<u> </u>		E	E			
						C	C			<u> </u>
	Manganous Sulfate	G	3	G	E			E	E	E

COMPOUND				_		VPE			
CHEMICAL OR MATERIAL CONVEYED	R	SBR	≌	EPDM	XLPE	UHMWPE	NBR	сR	CSM
Mercury	Е	Е	Е	Е	Е	Е	Е	Е	Е
Mercury Vapors	G	Е	Е	Е			Е	G	Е
Mesityl Oxide	Х	Х	F	С			Х	Х	Х
Methallyl Alcohol	Е		Е	E			Е	Е	Е
Methallyl Chloride	Х		Х					Х	Х
Methane Carboxylic Acid (See Acetic Acid)					E	E			
Methanoic Acid	С	Е	E	E	E	E	G	E	E
Methanol	Е	Е	С	E	E	E	С	Е	Е
Methoxy Ethanol	E		E	E	E	E	С	E	E
Methyl Acetate	С	Х	С	С			Х	С	Х
Methyl Acetoacetate	X	Х	С	С			Х	Х	Х
Methyl Acetone	Х	Х	E	E	E	E	Х	Х	Х
Methyl Allyl Chloride	X		Х					Х	Х
Methyl Amyl Carbinol	G		G	E			E	G	E
Methyl Benzene	Х	Х	Х	X	F	F	Х	Х	Х
Methyl Bromide	X	Х	С	X	F	F	С	Х	Х
Methyl Butane	Х		Х	X			Е	Х	Х
Methyl Butyl Ketone	X	Х	E	E	E	E	Х	Х	Х
Methyl Carbitol				G			F	F	
Methyl Cellosolve	X	Х	С	С	E	Е	С	С	С
Methyl Chloride	х	Х	С	С	F	F	Х	Х	Х
Methyl Cyanide	G		Е	E			С	Е	G
Methyl Ethyl Ketone	Х	Х	Е	E	E	Е	х	Х	Х
Methyl Hexanol	Е		Е	E			Е	Е	Е
Methyl Methacrilate	Х	Х	Х	Х	Е	Е	Х	Х	Х
Methyl Normal Amyl Ketone	Х			E			С	Е	Х
Methyl Propyl Ether	Х		Х	Х			Х	Х	С
Methyl Salycilate	Х		С	С	Е	Е	Х	Х	Х
Methyl Styrene	Х		Х	Х			Х	Х	Х
Methyl Sulfide	Х		F	Х			Х	Х	Х
Methyl-Iso-Amyl-Ketone	Х		G						Х
Methyl-2-Butanone	Х	Х	С	С			Х	Х	Х
Methyl-2-Hexanone	Х		G						Х
Methyl-2-Pentanol	G		Е	E			G	G	Е
Methyl-2-Pentanone	Х		С	С			Х	Х	Х
Methyl-4-Isopropyl Benzene	Х		Х	Х			Х	Х	Х
Methyl Amyl Acetate	Х								Х
Methyl Amyl Alcohol	G		Е	Е			G	G	Е
Methylcyclohexane	Х		Х	X			Х	Х	С
Methylene Bromide	Х		Х	Х	Е	Е	С	Х	Х
Methylene Chloride	Х	Х	Х	С	F	F	Х	Х	Х
Methylethyl Ketone	Х	Х	Е	Е			Х	Х	Х
Methyl Hexyl Ketone	х		G	G	Е		х	С	Х
Methyl Isobutyl Carbinol	G		Е	С			X	Х	Е
Methylisobutyl Ketone	x	х	С	С	E	Е	х	х	Х
Methylisopropyl Ketone	X	х	С	С			X	Х	Х
Methyllactonitrile	F		Е	E			х	G	F
Methylpropyl Carbinol	E		E				Е		E
Methylpropyl Ketone	×		G	G	E	Е	X	х	X
Mineral Oil	X	х	С	X	E	E	E	С	С
Mineral Spirits	X	X	X	X	-	-	c	С	G
Mobile Hf A	X	X	X	x			E	С	x
Molten Sulfur	G		G	E		-	G	E	E
Mono-Chloroacetic Acid	С	х	G	G	E	E	X	c	G
Monobutyl Ether	x	X	С	c	-	-	G	c	С
Monochlorobenzene	X	X	x	x	F	F	x	x	x
Monochlorodifluoromethane	c	E	c	c	E	E	X	c	E
Monoethanol Amine	c	G	c	c	-	-	G	G	C
	c	F	c	E			c	c	F
	. U		c	C	-	-	x	x	Г
Monoethyl Amine	x				1		· ^	^	
Monoethyl Amine Morpholine	X			Y			F	C	0
Monoethyl Amine Morpholine Motor Oil, 40W	X X		х	х			E	C X	С
Monoethyl Amine Morpholine Motor Oil, 40W Mibe	X	~	X G				Х	Х	
Monoethyl Amine Morpholine Motor Oil, 40W		X	х	X F C	E	E		-	C C X



COMPOUND						щ			
CHEMICAL OR MATERIAL CONVEYED	NR	SBR	R	EPDM	XLPE	UHMWPE	NBR	сR	CSM
Hexyl Methyl Ketone	x		G	G			х	С	x
Hexylamine	F		G	G			F	G	F
Hexylene Glycol	Е		E	F			С	E	Е
Histowax	Х		X						С
Hydraulic & Motor Oil	X	X	С	С	E	E	С	С	С
Hydrazine Hydrobromic Acid	C E	G X	C E	E	E	E	C X	C C	C E
Hydrocloric Acid	C	x	C	C	C	C	° C	c	C
Hydrocyanic Acid	С	G	c	E	-		С	С	E
Hydrofluoric Acid	С	х	С	С	Е	Е	С	С	Е
Hydrofluosilicic Acid	Е	G	E	Е	Е	Е	Х	С	Е
Hydrogen Chloride Anhydrous	Х	Х	E	Е			Х	С	Е
Hydrogen Dioxide	G		G	G			F	F	С
Hydrogen Gas	С	G	E	E	E	E	E	E	E
Hydrogen Peroxide Over 10%	C	X	C	C	C	F	X	X	C
Hydrogen Peroxide 10% Hydrogen Sulfide	G X	X X	G E	G E	E	E	F X	F	C G
Hydroxy Benzene	c	^	C	C	-	L	x	X	c
Hydroxyisobutyronirile	С		E	E			С	G	F
Hydroxytoluene	х	х	С	С			х	С	С
Iminodi-2-Propanol	G		Е	Е			G	G	F
Iminodiethanol	С	Х	С	G			С	G	F
lodine	Х	G	С	С	Е	Е	С	С	С
Iodine Pentafluoride	Х	Х	X	Х			Х	Х	Х
lodoform	X	-	X	E	-	_	E	×	Х
Iso-Butanal	X F	G	-	G	E	E	X	F	F
Iso-Butylamine Iso-Butylbromide	F X		E X	G X			X X	X X	F X
Iso-Butylcarbinol	X		E	E			E	E	E
Isocyanates	F		G	G	Е	E	С	x	F
Isooctane	Х	х	X	х	Е	Е	Е	С	С
Isopropyl Acetate	Х	х	С	С	Е	Е	Х	х	Х
Isopropyl Alcohol	Е	Е	E	Е	Е	Е	С	С	Е
Isopropyl Ether	Х	Х	X	Х	Е	E	G	Х	С
Jet Fuels	X	X	X	X	E	E	C	C	X
Jp-4 Oil Kerosene	X X	X X	X	X X	E	E	E	X C	X C
Ketones	C	Ē	G	E	E	E	C	c	c
Lacquer Solvents	X	X	x	E	E	X	x	X	X
Lactic Acid - Cold	E	G	E	С	G	G	С	С	E
Lactic Acid - Hot	Е	Х	Е	С	G	G	С	С	Е
Lard	Х	х	С	С	Е	Е	Е	С	С
Lavender Oil	Х	Х	X	Х			С	Х	Х
Lead Acetate	E	Х	E	E	E	E	С	С	Х
Lead Nitrate	E	E	E	E	-	-	E	E	E
Lead Sulfate Lime	E		E	E	E	E	E G	E G	E G
Lime Bleach	С	Е	E	E	-		c	c	E
Lime Sulfur	С	×	E	E	E	E	E	E	E
Limonene	Х		X	х			С	х	Х
Linoleic Acid	Х	х	Х	х			С	С	Х
Linseed Oil	х	х	С	С	Е	Е	Е	С	С
Liquid Petroleum Gas	X	х	X	X	Е	E	Е	G	С
Lubricating Oil	Х	Х	X	Х	E	E	С	С	С
Lye Solutions Mek	E	G	E	G	-	-	C V	G	E
Mek Magnesium Acetate	X X	X X	E	E G	E	E	X X	X X	X E
Magnesium Aletate	Ē	Ē	E	E	E	E	Ē	Ē	E
Magnesium Hydrate	С	G	E	E	E	E	С	С	E
Magnesium Hydroxyde	С	G	E	E	E	E	С	С	E
Magnesium Sulfate	С	G	Е	Е	Е	Е	Е	Е	Е
Maleic Acid	х	х	х	С	Е	Е	Х	х	х
Maleic Anhydride	х	х	С	С			х	X	х
Malic Acid	E	G	X	С	С	С	E	С	С
Manganous Sulfate	G		G	Е			Е	E	E

COMPOUND						VPE			
CHEMICAL OR MATERIAL CONVEYED	R	SBR	II	EPDM	XLPE	UHMWPE	NBR	сR	CSM
Mercury	E	Е	Е	E	E	E	E	E	Е
Mercury Vapors	G	Е	Е	Е			Е	G	Е
Mesityl Oxide	Х	Х	F	С			Х	Х	Х
Methallyl Alcohol	Е		Е	Е			Е	Е	Е
Methallyl Chloride	Х		Х					Х	Х
Methane Carboxylic Acid (See Acetic Acid)					Е	E			
Methanoic Acid	С	Е	Е	E	Е	E	G	Е	Е
Methanol	Е	Е	С	E	E	E	С	E	Е
Methoxy Ethanol	E		Е	E	E	E	С	E	Е
Methyl Acetate	С	Х	С	С			Х	С	Х
Methyl Acetoacetate	X	X	C	C	_	_	X	X	X
Methyl Acetone	X	Х	E	E	E	E	X	X	X
Methyl Allyl Chloride	X		X	-			_	X	X
Methyl Amyl Carbinol	G	v	G	E	-	-	E	G	E
Methyl Benzene	X	X	X	X	F	F	X	X	X
Methyl Bromide	X	Х	C	X	F	F	С	X	X
Methyl Butyl Ketone	X X	Х	X E	X E	E	E	E X	X X	X X
Methyl Butyl Ketone Methyl Carbitol	L^	^	-	E G			F	F	^
Methyl Cellosolve	x	х	С	c	E	E	С	С	С
Methyl Chloride	X	X	c	c	F	F	x	x	x
Methyl Cyanide	G	~	E	E		· ·	c	E	G
Methyl Ethyl Ketone	X	х	E	E	E	E	X	×	X
Methyl Hexanol	E	~	E	E		-	E	E	E
Methyl Methacrilate	X	х	X	X	E	E	X	X	X
Methyl Normal Amyl Ketone	x			E			С	E	х
Methyl Propyl Ether	X		Х	X			Х	Х	С
Methyl Salycilate	X		С	С	E	E	х	Х	Х
Methyl Styrene	Х		Х	Х			Х	Х	Х
Methyl Sulfide	Х		F	Х			Х	Х	Х
Methyl-Iso-Amyl-Ketone	Х		G						Х
Methyl-2-Butanone	Х	Х	С	С			Х	Х	Х
Methyl-2-Hexanone	х		G						Х
Methyl-2-Pentanol	G		Е	E			G	G	Е
Methyl-2-Pentanone	X		С	С			Х	Х	Х
Methyl-4-Isopropyl Benzene	Х		Х	X			Х	Х	Х
Methyl Amyl Acetate	X								Х
Methyl Amyl Alcohol	G		Е	E			G	G	Е
Methylcyclohexane	X		Х	X			Х	Х	С
Methylene Bromide	X		Х	X	E	E	С	Х	Х
Methylene Chloride	X	X	X	C	F	F	X	X	X
Methylethyl Ketone	X	Х	E	E	-		X	X	X
Methyl Hexyl Ketone	X		G	G	E		X	C	Х
Methyl Isobutyl Carbinol	G	v	E	C	-	-	X	X	E
Methylisobutyl Ketone Methylisopropyl Ketone	X X	X X	C C	C C	E	E	X X	X	X X
Methyllactonitrile	F	^	E	E			×	G	F
Methylpropyl Carbinol	E		E	L			E	0	E
Methylpropyl Ketone	X		G	G	E	E	X	Х	X
Mineral Oil	x	х	c	x	E	E	E	c	c
Mineral Spirits	X	X	X	X	-	-	С	c	G
Mobile Hf A	x	x	x	x			E	С	x
Molten Sulfur	G		G	E			G	E	E
Mono-Chloroacetic Acid	С	х	G	G	Е	Е	x	С	G
Monobutyl Ether	х	х	С	С			G	С	С
Monochlorobenzene	х	х	Х	Х	F	F	Х	Х	х
Monochlorodifluoromethane	С	Е	С	С	Е	E	Х	С	Е
Monoethanol Amine	С	G	С	С			G	G	С
Monoethyl Amine	С	F	С	Е			С	С	F
Morpholine	х		С	С			Х	Х	Х
Motor Oil, 40W	х		Х	х			Е	С	С
Mtbe			G				Х	Х	
Muriatic Acid	С	х	С	F			С	С	С
N-Butanal	Х	Х	С	С	Е	E	Х	Х	Х
	X	Х	С	С	1	1	С	X	Х



TECHNICAL DATA

06 H

COMPOUND						PE			
CHEMICAL OR MATERIAL CONVEYED	NR	SBR	Ħ	EPDM	XLPE	UHMWPE	NBR	К	CSM
Propylene Diamine	G		Е				G		F
Propylene Glycol	Е	Е	Е	Е	Е	Е	Е	Е	Е
Pydraul, 'E' Series	Х	Х	С	С			Х	Х	Х
Pydraulic 'C'	Х	Х	Х	Х			Х	Х	Х
Red Oil	Х	Х	Х	F	Е	Е	Е	F	С
Refrigerant 11	Х	Х	Х		E	Е			E
Refrigerant 12	Х	Е	Х		E	E			E
Refrigerant 22	С	Е	Х		E	E			E
Resorcinol	E	G	E	G			C	A	G
Sae No. 10 Oil	X	X	X	X	_	_	E	С	X
Sal Ammoniac	E	E	E	E	E	E	E	E	E
Sea Water	E	E	E	E	E	E	E	E	E
Sewage	G X	G C	G X	G X	E	E	E G	C E	E G
Silicate Esters Silicate Of Soda	E	E	Ē	E			E	E	E
Silicone Grease	E	E	E	E	E	E	E	E	E
Silicone Oil	E	E	E	E	E	E	E	E	E
Silver Nitrate	E	G	E	E	E	E	С	E	E
Skydrol 500 Type 2	X	x	G	E	-	-	x	X	X
Skydrol 500B	X	X	G	E			X	X	X
Skydrol 500C	X	X	G	E			X	X	X
Skydrol 7000 Type 2	E	Х	E	E			х	X	X
Soap Solutions	F	х	E	E	E	E	E	G	E
Soda Ash	E	х	Е	E	E	E	Е	E	E
Soda Lime	E		Е	E			G	G	G
Soda Niter	G	G	Е	Е	Е	E	Е	G	E
Sodium Acetate	F	Х	F	Е	Е	E	G	С	G
Sodium Aluminate	Е	G	Е	E			Е	E	E
Sodium Bicarbonate	Е	Е	Е	Е	Е	Е	Е	Е	Е
Sodium Bisulfate	Е	G	Е	Е	Е	Е	Е	Е	Е
Sodium Bisulfite	Е	G	Е	E	E	E	Е	Е	E
Sodium Borate	Е	Е	Е	Е	E	Е	Е	Е	E
Sodium Carbonate	Е	Е	E	E	E	E	Е	E	E
Sodium Chloride	E	Е	E	E	E	E	E	E	E
Sodium Cyanide	E	Е	E	E	E	E	E	E	E
Sodium Dichromate	Х	G	E	E			E	F	G
Sodium Hydrate	E	G	E	E	E	E	X	G	С
Sodium Hydrochlorite	F	G	G	G		_	F	F	E
Sodium Hydroxide	E	G	E	E	E	E	X	G	С
Sodium Hypochlorite	X	F	C	E	E	E	C	C	G
Sodium Metaphosphate	E	E	G	E	E	E	E	E	C
Sodium Nitrate	G	G	E	E	E	E	C	G	E
Sodium Perborate Sodium Peroxide	G C	G G	E	E	E	E	C C	G G	E G
								G	E
Sodium Phosphate Sodium Silicate	E	E	E	E	E	E	E	E	E
Sodium Sulfate	C	G	E	E	E	E	E	E	E
Sodium Sulfide	G	G	E	E	E	E	E	E	E
Sodium Sulfite	G	G	E	E	E	E	E	E	E
Sodium Thiosulfate	G		E	E	E	E	С	E	E
Soybean Oil	x	х	G	С	-	-	E	E	G
Stannic Chloride	E	E	E	E	E	E	E	G	E
Stannic Sulfide	E	_	E	E	_	-	E	E	E
Stannous Chloride	E	Е	E	G	E	E	E	E	E
Stannous Sulfide	E		E	E			E	E	E
Steam, Below 350 Deg F	С	х	G	Е	X	x	х	X	С
Stearic Acid	С	G	С	G	Е	Е	G	G	G
Stoddard Solvent	х	х	х	х	Е	Е	Е	G	х
Styrene	х	х	х	х	F	F	х	х	X
Sulfamic Acid	G		Е	Е			С	G	Е
Sulfur	х	х	Е	Е	Е	Е	х	Е	Е
Sulfur Chloride	Х	Х	Х	Е			С	Е	
Sulfur Dioxide	С	G	С	E		G	Х	С	С
	C C	G X	C G	E	X	G X	X X	C X	C X

COMPOUND						PE			
CHEMICAL OR MATERIAL CONVEYED	R	SBR	R	EPDM	XLPE	UHMWPE	NBR	сR	CSM
Sulfuric Acid, Conc.	х	х	х	х	F	F	х	х	х
Sulfuric Acid, Fuming	Х	Х	Х	Х	Х	Х	Х	Х	Х
Sulfuric Acid, 25%	Е	F	G	Е	Е	Е	С	С	Е
Sulfuric Acid, 25%-50%	G	F	G	Е	Е	Е	С	Х	G
Sulfuric Acid, 50%-96%	С	Х	С	Х	G	G	Х	Х	С
Sulfurous Acid, 10%	G	G	Е	Е	Е	Е	Е	С	Е
Sulfurous Acid, 10%-75%	G	G	E	E	E	E	F	С	Е
T-Butyl Amine	Х		С	С			С	Х	Х
Tall Oil	Х	Х	Х	Х			E	С	F
Tallow	Х	Х	Х	Е	E	E	E	G	F
Tannic Acid	E	G	E	E	E	E	E	E	E
Tar	X	Х	Х	Х	Х	F	Х	Х	
Tar Bituminous	X	Х	Х	Х			G	С	Х
Tartaric Acid	E	G	G	G	E	E	E	E	E
Tellone 2	C	-		-					-
Tertiary Butyl Alcohol	С	G	С	С			С	С	С
Terpineol	X	Х	C	-			-	~	X
Tertiary Butyl Amine	X	~	C	C		-	C	X	X
Tertiary Butyl Mercaptan	X	Х	X	X			X	X	X
Tetrachlorobenzene	X	~	X	X	-	-	X	X	X
Tetrachloroethane	X	X	X	X	F	F	X	X	X
Tetrachloroethylene	X	Х	X	X	F	F	C V	X	X
Tetrachloromethane	X X	-	X X	X X	E	E	X	X	X
Tetrachloronaphthalene					E	E	X	X	X
Tetraethylene Glycol	E		E	E			E	E	E
Tetraethylorthosilicate	X	х	E C	E X			E	E	v
Tetrahydrofuran	X E	~	E	E	E	E	X	X C	X C
Tin Chloride		v			E	E	E		
Titanium Tetrachloride	X X	X	X X	X X	E	-	C	C	X
Toluene	X	Х	X	X	E	E	X C	X X	X X
Toluol	X	x	X	X	E	E	x	X	X
Transformer Oil	x	x	×	X	E	E	° c	^ C	^ C
Transmission 'A' Oil	x	~	X	x	L	-	E	c	С
Tri-Amine	c		E	E			G	c	c
Tributyl Phosphate	c	x	G	G			F	0	x
Tributylamine	G	~	E	0			G		F
Trichloroacetic Acid	c	x	С	с		-	c	С	×
Trichlorobenzene	X	X	X	X	F	F	С	X	X
Trichloroethane	X	X	X	X			X	X	X
Trichloroethylene	X	X	X	X	F	F	X	X	X
Trichloromethane	X	X	X	X	F	F	X	X	X
Trichlorotoluene	X			E			X	X	X
Tricresyl Phosphate	x	х	Е	Е			х	х	х
Triethanolamine	С	G	E	Е	Е	Е	С	С	С
Triethylamine	G	х	G	E			E	G	Е
Triethylene Glycol	Е		E	Е	Е	Е	С	E	Е
Trihydroxybenzoic Acid	E		С	С			С	С	G
Trimethyl Pentane	х	Х	Х	Х			Е	G	С
Trimethylamine	Е		Е	С			С	Е	Е
Trisodium Phosphate	Е	E	E	E	E	Е	E	E	Е
Tritoyl Phosphate	х	х	Е	Е			х	С	С
Tung Oil	х	х	С	х	Е	Е	Е	С	С
Tung Oil	х	Х	С	Х	Е	Е	Е	С	С
Turpentine	х	х	х	х	E	Е	Е	х	х
Unsymetrical Dimethyl Hydrazine	Е	х	Е	Е			С	С	Е
Undecyl Alcohol	Е		Е	Е		_	Е	Е	Е
Urea	Е		Е	Е	Е	Е	G	G	Е
Uric Acid	Е		Е	Е			С	Е	Е
Varnish	x	х	х	х	Е	Е	G	х	х
Vegetable Oils	х	х	С	F	Е	Е	Е	С	G
Versilube F44	Е	Е	Е	Е			Е	Е	Е
Versilube F55	Е	Е	Е	Х			Е	Е	Е
		0	E	Е	E	Е	0	0	-
Vinegar	G	G	E		E		G	G	Е



TECHNICAL DATA

TECHNICAL DATA CHEMICAL RESISTANCE TABLE

COMPOUND						ň			
CHEMICAL OR MATERIAL CONVEYED	NR	SBR	Ħ	EPDM	XLPE	UHMWPE	NBR	CR	CSM
Vinyl Acetate	х	х	Е	G	Е	Е	С	С	F
Vinyl Benzene	Х	Х	Х	х	F	F	С	Х	х
Vinyl Chloride	Х	Х	С	Е	Е	Е	Х	Х	С
Vinyl Cyanide	G	F	Х	Х	Е	Е	Х	Х	G
Vinyl Ether	Х		Х				G		G
Vinyl Toluene	Х		Х	Х			Х	Х	Х
Vinyl Trichloride	Х		Х	Х			Х	Х	Х
Vm & Naphtha	Х	Х	Х	Х			G	F	Х
Water	Е	С	E	Е	E	Е	Е	G	E
Water, Boiling	Е		E	E			G	G	E
Water, Soda					Е	Е			
Wemco C	Х	Х	Х	Х			Е	С	Х
Whiskey	E	Е	E	E	E	Е	Е	E	E
White Oil	Х	Х	Х	Х	E	Е	E	G	С
White Pine Oil	X	X	X	X	-	_	C	X	X
Wines	E	E	E	E	E	E	E	E	E
Wood Alcohol	E	E	C	E	E	E	C	E	E
Wood Oil	×	X	C	X	E	E	E	C	C
Xenon Vular	E	E	E	E	-	-	E	E	E
Xylene, Xylon	X	X	X	X	F	F	X	X	X
Xylidine	X	X	G	G			C	X	X
Zeolites	E	E	E	E			E	E	E
Zinc Acetate	E	Х	E	E			G E	C E	-
Zinc Carbonate Zinc Chloride	E	-	E	E	E	E	E	E	E
Zinc Chromate	E	E	E	E	E	E	C	E	G
Zinc Sulfate	E	G	E	E	Е	Е	E	E	E
O-Aminotoluene	X	0	C	C	-		X	X	X
1 Undecanol	E	Е	E	E	E	G	E	E	E
1-Amino-2-Propanol	G		E	E	-	-	С	E	F
1-Aminobutane	X	х	С	С			С	X	X
1-Aminopentane	F	~	G	x			F	С	F
1-Bromo-2-Methyl Propane	Х		Х	х			Х	Х	Х
1-Bromo-3-Methyl Butane	Х		х	х			х	х	х
1-Bromobutane	Х		х	х			х	х	х
1-Chloro-2-Methyl Propane	Х		х	х			х	Х	х
1-Chloro-3-Methyl Butane	Х		х	х			х	Х	х
1-Decanol	Х		Х	Х	Е	Е	Е	Х	С
1-Hendecanol	Е		Е	Е			Е	Е	E
1,4-Dioxane	Х		С	С	Е		Х	Х	Х
2(2Aminoethylamino) Ethanol	G		Е						G
2(2Ethoxyethoxy) Ethanol	С	G	С	С			С	С	С
2(2Ethoxyethoxy) Ethyl Acetate	Х	Х	G	Х			Х	Х	G
2-Aminoethanol	С	F	С	Е			С	С	С
2-Chloro-1-Hydroxy-Benzene	Х		Х	Х			Х	Х	Х
2-Chlorophenol	Х	Х	Х	Х			Х	Х	Х
2-Chloropropane	Х	Х	Х	Х			Х	Х	Х
2-Ethoxyethanol	Х	х	С	С	Е	Е	С	Х	Х
2-Ethoxyethyl Acetate	С		С	G	Е	Е	Х	Х	Х
2-Ethyl	Х		G				Х		Х
2-Ethyl-1-Hexanol	G	G	С	С	Е	Е	С	С	С
2-Ethylhexanoic Acid	F		F				F		G
2-Ethylhexyl Acetate	Х		E	С	С		Х		G
	Х		G	G			Х	С	
2-Octanone									- ×
3-Bromopropene	Х		Х	Х			Х	Х	Х
	X X X	E	X C X	X X X	E	G	C E	X X G	X X F

