

## List of chemical resistance of materials in contact with liquid

For wet dispersing units of **ANALYSETTE 22** and **ANALYSETTE 28**

These chart informations are based on Fritsch's knowledge and experience and are intended as a guide and not as a guarantee. We cannot assure the perfect performance of the materials as that depends on many factors as working pressure, pressure picks, fluid, ambient temperature, fluid temperature, concentration, duration of exposure, etc...

### Abbreviations:

ASTM D1418 Abbreviation	Chemical name	Trade names	PPE Prefix
ACM	Polyacrylate (Polyacrylic)	Europrene-AR®, Krynac®, Nipolar®, Hycar®, Cyanacryl®, Noxite-PA®	P
AEM	Ethylene Acrylic	Vamac® W	W
AQU / EU	Polyester Urethane Polyether Urethane	Vibrathane®, Pellethane®, Urepan®, Elastothane®, Adiprene®, Desmopan®, Vulkollan®, Estane®	Q
CR	Chloroprene	Neoprene®, Skyprene®, Butclor®, Baypren®, Denka®	C
CSM	Chlorosulphonyl polyethylene (Chlorosulphonated polyethylene)	Hypalon®, Noralon®	L
ECO	Epichlorohydrin	Hydrin®, Herclor®, Gechron®	H
EPD / EPDM	Ethylene-Propylene Copolymer, Ethylene-Propylene Terpolymer	Buna-AP®, Dutral®, Epsyn®, Nordel®, Epcar®, Keltan®, Royalene®, Polysar-EDM®	E
FEP / PFA	Fluoroethylene Propylene, Perfluoroalkoxy	Teflon FEP®, Neoflon FEP®, Teflon PFA®, Neoflon PFA®	D
FEPM	See TFE/P	Aflas®, Dyneon BRE®	A
FFKM/FFPM*	Perfluoroelastomer	Perlast®, Kalrez®, Chemraz®	G
FKM/FPM*	Fluoroelastomer	Viton®, Dai-el®, Fluorel®, Tecnoflon®	V
FVMQ	Fluorosilicone	Silastic, LS®, FSE®	F
HNBR	Hydrogenated Nitrile	Therban®, Tornac®, Zetpol®	Z
IIR	Butyl Rubber	Exxon Butyl®, Polysar Butyl®, Esso Butyl®	J
IR	Isoprene	Shell Isoprene Rubber®	R
NR	Natural Rubber	Natsyn®	R
SBR	Styrene Butadiene (Buna-S)	Cariflex S®, Plioflex®, Europrene®, Pliolite®, Buna Huls®, Carom®, Solprene®	B
NBR / XNBR	Nitrile Butadiene, Carboxylated Nitrile	Breon®, Butakon®, Chemigum®, Hycar®, Buna-N®, Butacril®, Paracil®, Perbunan®, Krynac®, Europrene-N®, Nipol®	N
TFE/P	Tetrafluoroethylene/Propylene	Aflas®, Flourel II®, Fluoraz®	A
VMQ / PVMQ	Silicone	Silastic®, Siloprene®, Rhodorsil®, Silplus®	S

Wet dispersion units	Materials used in the sample circuit:
Wet dispersion unit (22.8500.00 & 28.2500.00)	stainless steel <sup>1</sup> , PTFE (Teflon) <sup>2</sup> , BK7 glass, Viton® Extreme <sup>3</sup> , Silicone hoses (LEZ-SIL 60 PFT) <sup>4</sup>
Small volume wet dispersion unit SVA (22.8800.00)	stainless steel <sup>1</sup> , PTFE (Teflon) <sup>2</sup> , BK7 glass, Viton® Extreme <sup>3</sup> , Silicone hoses (LEZ-SIL 60 PFT) <sup>4</sup>
Small volume wet dispersion unit SVM (22.8599.00)	stainless steel <sup>1</sup> , PTFE (Teflon) <sup>2</sup> , BK7 glass, Viton® Extreme <sup>3</sup> , Silicone hoses (LEZ-SIL 60 PFT) <sup>4</sup>
"Conversion Kit Extended" for extreme chemical resistance (22.8855.00)	FFKM (Kalrez®) <sup>3</sup> : replaces Viton® Extreme; TPE (LEZ-SAN Santoprene®) <sup>3</sup> : replaces Silicone hoses (LEZ-SIL 60 PFT)

<sup>1</sup> See Table 1 and Table 2

<sup>2</sup> See Table 2

<sup>3</sup> See Table 1

<sup>4</sup> See Table 2 (Silicone (peroxide/ platinum- cured))

**KEY:**

A - No effect; little noticeable change
B - Minor effect; slight corrosion or discoloration
C - Moderate effect; not recommended for continuous use; softening, loss of strength, swelling and/or shrinkage
D - Severe effect; not recommended for use; severe softening, swelling and/or shrinkage

**Table 1**

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Abietic Acid		A	A				
Acetaldehyde	D	A	A	D	D	C	A
Acetamide	C	C	A	A	D		A
Acetanilide	C	A					
Acetic Acid, 30%		A	A	A	D	A	A
Acetic Acid, 5%	A	A	A	A	D	A	A
Acetic Acid, Glacial	B	A	A	A	D		A
Acetic Acid, Hot, High Pressure	D	B	A		D		A
Acetic Anhydride	D	C	A	A		A	A
Acetoacetic Acid	C	C	A				A
Acetone	D	B	A	A	D	B	A
Acetone Cyanohydrin	C	B	A	A			
Acetonitrile	A	B	A	A	B	B	C
Acetophenetidine	A		A				
Acetophenone	D	C	A	B			
Acetotoluidide	A		A				
Acetyl Acetone	D	A	A	A			
Acetyl Bromide	A		A	D	D	D	
Acetyl Chloride	A	A	A	D	D	D	A
Acetylene	A	A	A	A	A		A
Acetylene Tetrabromide	A	A	A				
Acetylene Tetrachloride	A	A	A	D			
Acetylsalicylic Acid	A	A	A				
Acids, Non-organic		A	A				
Acids, Organic		A	A				
Aconitic Acid			A				
Acridine			A				
Acrolein	C	C	A	A			
Acrylic Acid	A	B		A			
Acrylonitrile	C	C	B	D	B		
Adipic Acid		A	B	B	D		
Aero Lubriplate	A	A	A				
Aero Shell 17 Grease	A	A	A				
Aero Shell 750	A	A	A				
Aero Shell 7A Grease	A	A	A				
Aero Shell IAC	A	A	A				
Aerosafe 2300	D	C	B				
Aerosafe 2300W	D	C	B				
Aerozene 50 (50% Hydrazine 50% UDMH)	D	C	B				
Air, Below 200°F	A	A	A		A	A	
Air, 200 - 300°F	A		A	D			
Air, 300 - 400°F	A		A				
Air, 400 - 500°F	C		B				
Aliphatic Dicarboxylic Acid	A		A	D		D	
Alkanes (Paraffin Hydrocarbons)	A	A	A				
Alkanesulfonic Acid	A		A				
Alkazene	B	A	A				
Alkenes (Olefin Hydrocarbons)	A	A	A				
Alkyl Acetone	C	C	A				
Alkyl Alcohol	A		A				
Alkyl Amine	A	B	B				
Alkyl Aryl Sulfonates	A		A				
Alkyl Aryl Sulfonics	A		A				
Alkyl Benzene	A	A	A				
Alkyl Chloride	A	A	A				
Alkyl Sulfide*	A		A				
Alkyl naphthalene Sulfonic Acid	A		A				
Allyl Chloride	A		A	C			
Allylidene Diacetate	C		B				
Alpha Picoline	C		A				
Aluminum Acetate	D	C	A	A			
Aluminum Bromide	A	A	A	A			
Aluminum Chlorate	C	A	A	A			
Aluminum Chloride	A	A	A	A	A	A	B
Aluminum Ethylate			A	A			
Aluminum Fluoride	A		A	A			C
Aluminum Fluorosilicate*			A	A			
Aluminum Formate	C	C	A	A			
Aluminum Hydroxide	B	A	A	A	A		B
Aluminum Linoleate	A		A	A			
Aluminum Nitrate	A	A	A	A			A
Aluminum Oxalate	C		A				
Aluminum Phosphate	A	A	A				
Aluminum Potassium Sulfate	C	A	A				B
Aluminum Salts	A	A	A	A	A		
Aluminum Sodium Sulfate	C	A	A				
Aluminum Sulfate	A	A	A	A	A	A	B
Alums-NH3 -Cr -K	D		A			A	
Ambrex 33 (Mobil)	A	A	A				

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Ambrex 830 (Mobil)	A	A	A				
Amines-Mixed	D	C	A	C	D		A
Aminoanthraquinone			A				
Aminoazobenzene			A	A			
Aminobenzene Sulfonic Acid			A				
Aminobenzoic Acid			A				
Aminopyridine			A				
Aminosalicilic Acid			A				
Ammonia (Anhydrous)	D	B	A				A
Ammonia and Lithium Metal in Solution	D						
Ammonia, Gas, Cold	D		A		D		
Ammonia, Gas, Hot	D		A				
Ammonia, Liquid (Anhydrous)	D				D		A
Ammonium Acetate	C	C	A	A	D	A	
Ammonium Arsenate	C		A				
Ammonium Benzoate	C		A				
Ammonium Bicarbonate	C	C	A				
Ammonium Bisulfite	C		A				
Ammonium Bromide	A		A				
Ammonium Carbamate	C		A			A	
Ammonium Carbonate	A		A	A	A		A
Ammonium Chloride, 2N	A	A	A	A		A	C
Ammonium Citrate	C		A				
Ammonium Dichromate	C		A				
Ammonium Diphosphate	C	A	A				
Ammonium Fluoride	A	A	B				
Ammonium Fluorosilicate*			A				
Ammonium Formate	C		A				
Ammonium Hydroxide, 3 Molar	C	A	B	A	D	A	A
Ammonium Hydroxide, Concentrated	D	A	B	A	D	A	A
Ammonium Iodide	A		A				
Ammonium Lactate	C		A				
Ammonium Metaphosphate	C		A				
Ammonium Molybdenate*	C		A				
Ammonium Nitrate, 2N		A	A	A		A	A
Ammonium Nitrite		A	A				A
Ammonium Oxalate	C		A				A
Ammonium Perchlorate	C		A				
Ammonium Perchloride			A				
Ammonium Persulfate 10%		A	A	A	A		A
Ammonium Persulfate Solution		A	A		A		
Ammonium Phosphate	D	A	A			A	
Ammonium Phosphate, Dibasic		A	A				A
Ammonium Phosphate, Mono-Basic		A	A				A
Ammonium Phosphate, Tribasic		A	A				A
Ammonium Phosphite	C		A				
Ammonium Picrate	C		A				
Ammonium Polysulfide	C		A				
Ammonium Salicylate	C		A				
Ammonium Salts	C	B	A	A	A		
Ammonium Sulfamate	C	C	A				
Ammonium Sulfate	D	A	A	A	A	A	B
Ammonium Sulfate Nitrate	D		A				
Ammonium Sulfide	D	A	A				
Ammonium Sulfite	C	A	A	A			
Ammonium Thiocyanate	C	A	A				
Ammonium Thioglycolate	C		A				
Ammonium Thiosulfate	C	A	A	A			A
Ammonium Tungstate	C		A				
Ammonium Valerate	C		A				
Amyl Acetate	D	B	A	D	D	D	A
Amyl Alcohol	B	A	A	A	A	A	A
Amyl Borate	A	A	A				
Amyl Butyrate	A	A	A				
Amyl Chloride	A	A	A	D	D	D	B
Amyl Chloronaphthalene	A	A	A				
Amyl Cinnamic Aldehyde	A	C	A				
Amyl Laurate	A	A	A				
Amyl Mercaptan	A	A	A				
Amyl Naphthalene	A	A	A				
Amyl Nitrate	C		A				
Amyl Phenol		A	A				
Amyl Propionate	A	A	A				
Anderol, L- 826 (di-ester)	A	A	A				
Anderol, L- 829 (di-ester)	A	A	A				
Anderol, L-774 (di-ester)	A	A	A				
ANG-25 (Di-ester Base) (TG749)	A	A					
ANG-25 (Glycerol Ester)	A	A					
Aniline	C	A	A	A	D	D	A
Aniline Dyes	B	A	A	A	D		
Aniline Hydrochloride	B	A	A			D	
Aniline Oil	C	B	A	B			
Aniline Sulfate	C		A				
Aniline Sulfite	C		A				
Animal Fats	A	A	A	B			
Animal Oil (Lard Oil)	A	A	A				
Anisole		A	A				
Anisoyl Chloride			A				
AN-O-3 Grade M	A						

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
AN-O-366	A						
AN-O-6	A						
Ansul Ether 161 or 181	D	C	A				
Anthracene	A	A	A				
Anthranilic Acid		A	A				
Anthraquinone		A	A				
Anti-freeze Solutions	C	A	A				
Antimony Chloride	A	A	A				
Antimony Pentachloride	A	A	A	A			
Antimony Pentafluoride		A	B				
Antimony Sulfate			A				
Antimony Tribromide	A		A				
Antimony Trichloride	A		A				D
Antimony Trifluoride	A		B				
Antimony Trioxide	A		A				
AN-VV-O-366b Hydr. Fluid	A	A	A				
Aqua Regia	B	A	A	D	D	A	D
Arachidic Acid		A	A				
Argon	A	A	A	A			
Aroclor, 1248	A	A	A				
Aroclor, 1254	A	A	A				
Aroclor, 1260	A	A	A				
Aromatic Fuel -50%	A	A	A				
Arsenic Acid	A	A	A	A			A
Arsenic Oxide			A		A		
Arsenic Trichloride	D	C	A				
Arsenic Trioxide	D		A				
Arsenic Trisulfide	D		A				
Arsenites			A				
Arsine			A				
Aryl Orthosilicate			A				
Ascorbic Acid	C	A	A				
Askarel Transformer Oil	A	A	A				
Aspartic Acid	C	B	A				
Asphalt	A	A	A				A
ASTM Oil, No. 1	A	A	A	C	A		
ASTM Oil, No. 2	A	A	A	D	A		
ASTM Oil, No. 3	A	A	A	D	A		
ASTM Oil, No. 4	A	A	A	D			
ASTM Oil, No. 5	A	A	A				
ASTM Reference Fuel A	A	A	A	C			
ASTM Reference Fuel B	A	A	A	B			
ASTM Reference Fuel C	A	A	A	B			
ASTM Reference Fuel D	A	A	A				
ATL-857	A	A					
Atlantic Dominion F	A	A					
Atlantic Utro Gear-e	A	A					
Atlantic Utro Gear-EP Lube	A	A					
Aure 903R (Mobil)	A	A	A				
AUREX 256		A	A				
Automatic Transmission Fluid	A	A	A	D			
Automotive Brake Fluid	D	B	A				
AXAREL 9100							
Azobenzene			A				
Bardol B	A	A	A				
Barium Carbonate	C	A	A	A	A		A
Barium Chlorate	C	A	A				
Barium Chloride	A	A	A	A			A
Barium Cyanide	A	A	A				A
Barium Hydroxide	A	A	A	A	A		A
Barium Iodide	A	A	A				
Barium Nitrate	C	A	A				A
Barium Oxide	A	A	A				
Barium Peroxide	C	B	A				
Barium Polysulfide	C	B	A				
Barium Salts	A	A	A			A	
Barium Sulfate	A	A	A				A
Barium Sulfide	A	A	A	A			
Bayol 35	A	A	A				
Bayol D	A	A	A				
Beer	A	A	A	A	A		
Beet Sugar Liquids	A	A	A	A			A
Beet Sugar Liquors	A	A	A	A			
Benzaldehyde	D	C	B	B	D	C	A
Benzaldehyde Disulfonic Acid			B				
Benzamide	A	A	A				
Benzanthrone	A	A	A				
Benzene	A	A	A	D	D		A
Benzene Hexachloride		A	A				
Benzenesulfonic Acid 10%	A	A	B		D	D	
Benzidine	A	A	A				
Benzidine 3 Sulfonic Acid	A	A	A				
Benzil	A	A	A				
Benzilic Acid	A	A	A				
Benzine (Ligroin)	A	A	A	D			
Benzocatechol	A	A					
Benzochloride	A	A	A				
Benzoic Acid	A	A	A	B	D		A
Benzoin	A	A	A	D			

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Benzonitrile	C	B	A				
Benzophenone	A	A	A				
Benzoquinone	A	A	A				
Benzo-trichloride	A	A	A				
Benzotrifluoride	A	A	A				
Benzoyl Chloride	A	A	A				
Benzoyl Peroxide			A				
Benzoylsulfonic Acid	A	A	A				
Benzyl Acetate	C	C	A				
Benzyl Alcohol	A	A	A		A		
Benzyl Amine		C	B				
Benzyl Benzoate	A	A	A				
Benzyl Bromide	A		A				
Benzyl Butyl Phthalate	C	A	A				
Benzyl Chloride	A	A	A				
Benzyl Phenol	A	A	A	D			
Benzyl Salicylate	A		A				
Beryllium Chloride	A		A				
Beryllium Fluoride	A		A				
Beryllium Oxide	A		A				
Beryllium Sulfate	C		A				
Bismuth Carbonate	C	A	A				
Bismuth Nitrate	C		A				
Bismuth Oxochloride	C		A				
Bittern			A				
Black Liquor	A	A	A				
Black Point 77	A	A					
Blast Furnace Gas	A	A	A				
Bleach Liquor	A	A	A		A		
Bleach Solutions	A		B			A	
Borax	A		A		A		A
Borax Solutions	A	A	A				
Bordeaux Mixture	A	A	A				
Boric Acid	A	A	A	A	A	A	A
Boric Oxide	C		A				
Borneol	A	A	A				
Bornyl Acetate	A	B	A				
Bornyl Chloride	A		A				
Bornyl Formate	A		A				
Boron Fluids (HEF)	A	A	A				
Boron Hydride			A				
Boron Phosphate			A				
Boron Tribromide			A				
Boron Trichloride			B				
Boron Trifluoride			B				
Boron Trioxide			A				
Brake Fluid DOT3 (Glycol Type)	D	A	A				
Bray GG-130	A						
Brayco 719-R (VV-H-910)	D	A					
Brayco 885 (MIL-L-6085A)	A	A					
Brayco 910	D	B					
Bret 710	D						
Brine	A	A	A				
Brine (Seawater)	A						
Brom - 113							
Brom - 114	B						
Bromic Acid	C		A				
Bromine	A	A	A			D	D
Bromine Pentafluoride Factory	D	C	B				
Bromine Trifluoride Factory	D	C	B				
Bromine Water	A		B				
Bromobenzene	A	A	A				
Bromobenzene Cyanide	C		A				
Bromochlorotrifluoroethane (Halothane)	A	A	A				
Bromoform	A		A				
Bromomethane (Methyl Bromide)	A	A	A				
Bromotrifluoroethylene (BFE)		A					
Bromotrifluoromethane (F-13B1)		B	B				
Brucine Sulfate	C		A				
Buffered Oxide Etchants							
Bunker Oil	A	A	A				
Bunker's "C" (Fuel Oil)	A	A	A				
Butadiene (Monomer)	A	A	A				
Butane	A	A	A	A	A	B	A
Butane, 2, 2-Dimethyl	A		A				
Butane, 2, 3-Dimethyl	A		A				
Butanediol	C	A	B				
Butanol (Butyl Alcohol)	A	A	A			A	A
Butene 2-Ethyl (1-Butene 2-Ethyl)	A		A				
Butter-Animal Fat	A						A
Butyl Acetate or n-Butyl Acetate	D	A	A		D	D	C
Butyl Acetyl Ricinoleate	A		A				
Butyl Acrylate	D	C	A				
Butyl Alcohol	A	A	A		A		
Butyl Alcohol (Secondary)	A	A	A				
Butyl Alcohol (Tertiary)	A	A	A	D			
Butyl Amine or N-Butyl Amine	D	C	A				
Butyl Benzoate	C	A	A				
Butyl Benzoate or n-Butyl Benzoate	A		A				

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Butyl Benzolate			A				
Butyl Butyrate or n-Butyl Butyrate	A	A	A				
Butyl Carbitol	C	A	A				
Butyl Cellosolve	D		A				
Butyl Cellosolve Acetate	C		A				
Butyl Cellosolve Adipate	B		A				
Butyl Chloride	A		A				
Butyl Ether or n-Butyl Ether	D		A				
Butyl Glycolate	C		A				
Butyl Lactate	C		A				
Butyl Laurate	C		A				
Butyl Mercaptan (Tertiary)	A		A				
Butyl Methacrylate	C		A				
Butyl Oleate	A		A				
Butyl Oxalate	C		A				
Butyl Stearate	A		A				
Butylbenzoic Acid	A		A				
Butylene	A	A	A				A
Butyraldehyde	D		B				
Butyric Acid	B		A		D	D	A
Butyric Anhydride	C		A				
Butyrolactone	C		A				
Butyryl Chloride	A		A				
Cadmium Chloride	C		A				
Cadmium Cyanide	C	A	A				
Cadmium Nitrate	C		A				
Cadmium Oxide	C		A				
Cadmium Sulfate	C		A				
Cadmium Sulfide	C		A				
Calcine Liquors	A		A				
Calcium Acetate	D	A	A				
Calcium Arsenate	C		A				
Calcium Benzoate	A		A				
Calcium Bicarbonate	C	A	A				
Calcium Bisulfide	C	A	A				B
Calcium Bisulfite	B		A				A
Calcium Bromide	A		A				
Calcium Carbide		A	A				
Calcium Carbonate	A	A	A	A	A		A
Calcium Chlorate	C	A	A				A
Calcium Chloride	A	A	A	A	A		D
Calcium Chromate	C		A				
Calcium Cyanamide			A				
Calcium Cyanide		A	A				
Calcium Fluoride	A		A				
Calcium Gluconate	C		A				
Calcium Hydride	A		A				
Calcium Hydrosulfide	C		A				
Calcium Hydroxide	A	A	A	A	A		A
Calcium Hypochlorite	A	A	A	A	A		C
Calcium Hypophosphite	C		A				
Calcium Lactate	C		A				
Calcium Naphthenate			A				
Calcium Nitrate	A	A	A	A	A		
Calcium Oxalate	C		A				
Calcium Oxide	A	A	A			A	
Calcium Permanganate			A				
Calcium Peroxide			A				
Calcium Phenolsulfonate	C		A				
Calcium Phosphate	A	A	A				
Calcium Phosphate Acid	C		A				
Calcium Propionate	C		A				
Calcium Pyridine Sulfonate			A				
Calcium Salts	A	A	A	A	A	A	
Calcium Silicate	A	A	A				
Calcium Stearate	A	A	A				
Calcium Sulfamate	A		A				
Calcium Sulfate	C	A	A	A	A		A
Calcium Sulfide	A	A	A				
Calcium Sulfite	A	A	A				
Calcium Thiocyanate	C		A				
Calcium Thiosulfate	A	A	A				
Calcium Tungstate	C						
Caliche Liquors	A	A	A				
Camphene	A	A	A				
Camphor	A	A	A				
Camphoric Acid	A	A	A				
Cane Sugar Liquors	A	A	A				A
Capric Acid	A	A	A				
Caproic Acid	A	A	A				
Caproic Aldehyde	D	C	A				
Caprolactam	A	C	A				
Capronaldehyde	A		B				
Carbamate	A	A	A				
Carbazole			A				
Carbitol	B	B	A				
Carbolic Acid (Phenol)	A	A	A				
Carbon Bisulfide	A		A			D	
Carbon Dioxide	A	A	A		A	A	A

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Carbon Dioxide (Explosive Decompression Use)	A	A	A				A
Carbon Disulfide	A	A	A	D	B		A
Carbon Fluorides	A		A				
Carbon Monoxide	A	A	A	A	A		A
Carbon Tetrabromide			A				
Carbon Tetrachloride	A	A	A	D	D	D	B
Carbon Tetrafluoride	A		B				
Carbonic Acid	A	A	A	A	A		B
Casein	C	A	A				
Castor Oil	A	A	A	C	A		
Caustic Lime	C	A	A				
Caustic Potash	C	A	A				
Caustic Soda (Sodium Hydroxide)	C	B	A				
Cellosolve	D	C	A	C	D		
Cellosolve, Acetate	D	C	A	C	D		
Cellosolve, Butyl	D		A				
Celluguard	A	A					
Cellulose Acetate	C	B	A				
Cellulose Acetate Butyrate	C		A				
Cellulose Ether	C		A				
Cellulose Nitrate*	C		A				
Cellulose Tripropionate	C		A				
Cellulube (Phosphate Esters)		A	A				
Cellutherm 2505A	A	A					
Cerium Sulfate	C		A				
Cerous Chloride	C		A				
Cerous Fluoride	C		A				
Cerous Nitrate	C		A				
Cetane (Hexadecane)	A	A	A				
Cetyl Alcohol	A	A	A				
Chaulmoogric Acid			A				
China Wood Oil (Tung Oil)	A	A	A				
Chloral	C	C	A				
Chloramine		C	A				
Chloranthraquinone	A		A				
Chlordane	A	A	A				
Chlorextol	A	A	A				
Chloric Acid	C		A				D
Chlorinated Solvents, Dry	A	A	A				
Chlorinated Solvents, Wet	A	A	A				A
Chlorine (Dry)	A	A	A		A	C	A
Chlorine (Plasma)		A	B				
Chlorine (Wet)		A	B		A	C	A
Chlorine Dioxide	A	A	A				
Chlorine Dioxide, 8% Cl as NaClO2 in solution	A	A	B				
Chlorine Trifluoride	D	C	B				
Chlorine Water	A	A	A				
Chloro 1-Nitro Ethane (1-Chloro 1-Nitro Ethane)	D	C					
Chloro Oxyfluorides			B				
Chloro Xylenols	A		A				
Chloroacetaldehyde	C	C	B				
Chloroacetic Acid	D	B	A	B	D	A	
Chloroacetone	D	B	A				
Chloroacetyl Chloride			A				
Chloroamino Benzoic Acid	C		A				
Chloroaniline	C		A				
Chlorobenzaldehyde	C	C	A				
Chlorobenzene	A	A	B	D	D	D	A
Chlorobenzene (Mono)	A		A				
Chlorobenzene Chloride	A		A				
Chlorobenzene Trifluoride	A		A				
Chlorobenzochloride	A		A				
Chlorobenzotrifluoride	A		A				
Chlorobromo Methane	A	A	A			D	
Chlorobromopropane	A	A	A				
Chlorobutadiene	A	A	A				
Chlorobutane (Butyl Chloride)	A	A	A				
Chlorododecane	A	A	A				
Chloroethane	A	A	A				
Chloroethane Sulfonic Acid	C		A				
Chloroethylbenzene	A	A	A				
Chloroform	A	A	A	C	D	D	A
Chlorohydrin	C		A				
Chloronaphthalene or o-Chloronaphthalene	A	A	A				
Chloronitrobenzene	C		A				
Chlorophenol or o-Chlorophenol	A	A	A				
Chloropicrin	A	A	A				
Chloroprene	A	A	A				
Chlorosilanes	X		A				
Chlorosulfonic Acid	D		A	D	D	D	
Chlorotoluene	A	A	A				
Chlorotoluene Sulfonic Acid	C		A				
Chlorotoluidine	A	B	A				
Chlorotrifluoroethylene (CTFE)			B				
Chlorox	A	A	A				A
Chloroxylols	X						
Cholesterol	A		A				
Chrome Alum	A	A	A				
Chrome Plating Solutions	A	A	A				



Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Chromic Acid	A	A	A	A	A	B	B
Chromic Chloride			A				
Chromic Fluorides			A				
Chromic Hydroxide			A				
Chromic Nitrates			A				
Chromic Oxide	A	A	A				
Chromic Phosphate			A				
Chromic Sulfate			A				
Chromium Potassium Sulfate (Alum)	A		A				
Chromyl Chlorides			A				
Cinnamic Acid	A	A	A				
Cinnamic Alcohol	A	A	A				
Cinnamic Aldehyde	A	B	A				
Circo Light Process Oil	A		A				
Citric Acid	A	A	A	A	D		A
City Service #65 #120 #250	A						
City Service Koolmoter-AP Gear Oil 140-EP Lube	A						
City Service Pacemaker #2	A						
Clorox	A	A	A				
Coal Tar	A	A	A				
Cobalt Chloride	A	A	A				
Cobalt Chloride, 2N	A		A				
Cobaltous Acetate	C		A				
Cobaltous Bromide	A		A				
Cobaltous Linoleate			A				
Cobaltous Naphthenate			A				
Cobaltous Sulfate	C		A				
Coconut Oil	A	A	A	C	A		
Cod Liver Oil	A	A	A				
Codeine	A		A				
Coffee	A		A				
Coke Oven Gas	A	A	A				
Coliche Liquors			A				
Convelex 10							
Coolanol 20 25R 35R 40& 45A (Monsanto)	A		A				
Copper Acetate	D	C	A				
Copper Ammonium Acetate	C		A				
Copper Carbonate	C	A	A				
Copper Chloride	A	A	A	A			D
Copper Cyanide	A	A	A				A
Copper Gluconate	C		A				
Copper Naphthenate			A				
Copper Nitrate	A	A	A	A			A
Copper Oxide	A		A				
Copper Salts	A	A	A			A	
Copper Sulfate	A	A	A	A			A
Copper Sulfate 10%	A	A	A				B
Copper Sulfate 50%	A	A	A				
Corn Oil	A	A	A	A	A		
Cottonseed Oil	A	A	A		A		
Creosote, Coal Tar	A	A	A				
Creosote, Wood	A	A	A				
Cresol (Methyl Phenol)	A	A	A		A	A	
Cresols	B	A	A	D	A		A
Cresylic Acid	A	A	A	B	D		A
Crotonaldehyde	A	B	A				
Crotonic Acid	A	A	A				
Crude Oil	A	A	A				
Cumaldehyde	A		A				
Cumene	A	A	A				
Cumene Hydroperoxide			A				
Cupric Sulfate	A	A			A		
Cutting Oil	A	A	A				
Cyanamide			A				
Cyanides			A				
Cyanogen Chloride			B				
Cyanogen Gas			A				
Cyanohydrin			A				
Cyanuric Chloride			A				
Cyclohexane	A	A	A		A	D	A
Cyclohexanol	A	A	A				
Cyclohexanone	D	A	A	D	D	C	
Cyclohexene	A	B	A	D			
Cyclohexylamine	A	C	B				
Cyclohexylamine Carbonate			B				
Cyclohexylamine Laurate	A	C	B				
Cyclopentadiene	A	B	A				
Cyclopentane	A	A	A				
Cyclopolyolefins	A	A	A				
Cymene or p-Cymene	A	A	A				
DDT (Dichlorodiphenyltrichloroethane)	A	A	A				
Decalin	A	A	A				
Decane	A		A				
Delco Brake Fluid	A		A				
Denatured Alcohol	A	A	A				
Detergent, Water Solution	A	A	A		A		A
Developing Fluids (Photo)	A	A	A				
Dexron	A	A	A				
Dextrin	A	A	A				

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Dextro Lactic Acid	C		A				
Dextron	A						
Dextrose	C	A	A				
DI Water	B	A	B				
Diacetone	D	B	A				
Diacetone Alcohol	D	B	A			A	
Dialkyl Sulfates	C		A				
Diallyl Ether		B	A				
Diallyl Phthalate		A	A				
Diamylamine	A	C	B				
Diazinon	B	A	A				
Dibenzyl (sym-Diphenylethane)	A	A	A				
Dibenzyl Ether Factory	D	C	A				
Dibenzyl Sebacate	B	A	A				
Diborane			A				
Dibromoethane	A		A				
Dibromoethyl Benzene	A	A	A				
Dibutyl Cellosolve Adipate	C		A				
Dibutyl Ether Factory	C	B	A				
Dibutyl Methylenedithio Glycolate	A		A				
Dibutyl Phthalate	C	A	A	A	A		
Dibutyl Sebacate	B	A	A				
Dibutyl Thioglycolate	A		A				
Dibutyl Thiourea	A		A				
Dibutylamine	D	C	A				
Dichloroacetic Acid	A	C	A				
Dichloroaniline	C	A	A				
Dichlorobenzene or o-Dichlorobenzene	A	A	A				
Dichlorobenzene or p-Dichlorobenzene	A	A	A				
Dichlorobutane	A	A	A				
Dichlorobutene	A	A	A				
Dichlorodiphenyl-Dichloroethane (DDD)	A		A				
Dichloroethane	A	A	A				A
Dichloroethylene	A	A	A				
Dichlorohydrin	C		A				
Dichloroisopropyl Ether	C	B	A				
Dichloromethane	A	A	A				
Dichlorophenol	A	A	A				
Dichlorophenoxyacetic Acid	A		A				
Dichloropropane	A	A	A				
Dichloropropene	A	A	A				
Dichlorosilane			A				
Dicyclohexylamine	D	B	A				
Dicyclohexylammonium Nitrate	C						
Dieldrin	A	B	A				
Diesel Oil	A	A	A	D	A		A
Di-ester Lubricant MIL-L-7808	A	A	A				
Di-ester Synthetic Lubricants	A	A					
Diethanolamine (DEA)	C	B		A			
Diethyl Benzene	A	A	A				
Diethyl Carbonate	C	B	A				
Diethyl Ether	D	B	A				
Diethyl Phthalate	A		A				
Diethyl Sebacate	B		A				
Diethyl Sulfate	C		A				
Diethylamine	D		B				A
Diethylaniline	C		A				
Diethylene Glycol	A	A	A	A			A
Diethylenetriamine		C	A				
Diffuorodibromomethane			A				
Diffuoroethane	A	D	A				
Diffuoromonochloroethane	A		A				
Diglycol Chloroformate	C		A				
Diglycolic Acid	C		A				
Dihydroxydiphenylsulfone	C		A				
Diisobutyl Ketone		C	A				
Diisobutylcarbinol	A		A				
Diisobutylene	A		A				
Diisooctyl Sebacate 3 2	B						
Diisopropyl Ether (DIPE)		A	A				
Diisopropyl Ketone	D	C	A				
Diisopropylbenzene	A		A				
Diisopropylidene Acetone	A	C	A				
Dimethyl Acetamide	C	A	A				
Dimethylaniline (Xylidine)	A	B	A				
Dimethyldisulfide (DMDS)	A		A				
Dimethyl Ether	B	C	A				
Dimethyl Formaldehyde	C	C	A			A	
Dimethyl Formamide (DMF)	D	A	A	B	D		
Dimethylhydrazine	C	B	A				
Dimethyl Phenyl Carbinol	A		A				
Dimethyl Phenyl Methanol	A		A				
Dimethyl Phthalate	B	A	A				
Dimethyl Sulfoxide (DMSO)	C	C	A	D			
Dimethyl Terephthalate (DMT)	A	A	A				
Dimethylamine (DMA)	D		B				
Dinitrochlorobenzene	A						
Dinitrogen Tetroxide			B				
Dinitrotoluene (DNT)	D		A				

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Diethyl Phthalate	B	A	A	A	A		
Diethyl Sebacate	B	A	A				
Diethylamine	A		A				
Dioxane	D	C	A	D	D		
Dioxolane	D	C	A				
Dipentene	A		A				
Diphenyl	A	A	A	A			
Diphenyl Oxides	A	A	A				
Diphenylamine (DPA)	A		A				
Diphenylene Oxide		A	A				
Diphenylpropane	A	A	A				
Disilane		A					
Di-Tert-Butyl Peroxide			A				
Dodecylbenzene	A	A	A				
Dow Chemical 50-4	D	A					
Dow Chemical ET378							
Dow Chemical ET588	D						
Dow Corning -11	A						
Dow Corning -1208, 4050, 6620, F-60, XF-60	A	A					
Dow Corning -1265 Fluorosilicone Fluid	A						
Dow Corning -200	A	A					
Dow Corning -220	A	A					
Dow Corning -3	A	A					
Dow Corning -33	A	A					
Dow Corning -4	A	A					
Dow Corning -44	A	A					
Dow Corning -5	A	A					
Dow Corning -510	A	A					
Dow Corning -55	A	A					
Dow Corning -550	A	A					
Dow Corning -704	A	A					
Dow Corning -705	A	A					
Dow Corning -710	A	A					
Dow Corning F-61	A	A					
Dow Guard	A	A					
Dowanol P Mix			A				
Dowtherm, 209	D	A	A				
Dowtherm, A	A	A	A				
Dowtherm, E	A	A	A				
Drinking Water	A	A	A	A	A		
Dry Cleaning Fluids	A	A	A				
DTE 20 Series, Mobil	A	A	A				
DTE named series, Mobil, light-heavy	A	A	A				
Elco 28-EP lubricant	A	A					
Epichlorohydrin	D	C	B				
Epoxy Resins	D	B	A				
Erucic Acid							
Esam-6 Fluid	D	B					
Esso Fuel 208	A	A					
Esso Golden Gasoline	A	A					
Esso Motor Oil	A	A					
Esso Transmission Fluid (Type A)	A	A					
Esso WS2812 (MIL-L-7808A)	A	A					
Esso XP90-EP Lubricant	A	A					
Esstic 42, 43	A	A					
Ethane	A	A	A				A
Ethanol	C	A	A			A	A
Ethanol Amine	D	C	A				A
Ethers	C	C	A	C	D	D	A
Ethoxyethyl Acetate (EGMEEA)	C						A
Ethyl Acetate-Organic Ester	D	B	A	B	D		
Ethyl Acetoacetate	D	C	A			D	
Ethyl Acrylate	D	C	A				
Ethyl Alcohol	C	A	A	A	D		
Ethyl Ammonium Dichloride							
Ethyl Benzene	A	A	A				
Ethyl Benzoate	A	A	A	D	D		
Ethyl Bromide	A	A	A	D		D	
Ethyl Cellosolve	D	B	A				
Ethyl Cellulose	D	C	A				
Ethyl Chloride	A	A	A	C	D	D	A
Ethyl Chlorocarbonate	A	A	A				
Ethyl Chloroformate	D		A				
Ethyl Ether	D	C	A	C	D		
Ethyl Formate	A	A	A				
Ethyl Hexanol	A	A	A				
Ethyl Lactate	C						
Ethyl Mercaptan X 2	B	A	A				
Ethyl Nitrite	C						
Ethyl Oxalate	B	A	A				
Ethyl Pentachlorobenzene	A	A	A				
Ethyl Pyridine	A						
Ethyl Silicate	A	A	A				
Ethyl Stearate	A						
Ethyl Sulfate	D		A				D
Ethyl Tertiary Butyl Ether		A					
Ethyl Valerate	A						
Ethylacrylic Acid							
Ethylamine	C					B	

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Ethylcyclopentane	A	A					
Ethylene	B	A	A				
Ethylene Chloride	B	A	A				A
Ethylene Chlorohydrin	A	A	A	A	D	A	
Ethylene Cyanohydrin	A						
Ethylene Diamine	D	A	B				
Ethylene Dibromide	A	A	A				
Ethylene Dichloride	A	A	A	C	D	D	A
Ethylene Glycol	A	A	A	A	A	A	A
Ethylene Hydrochloride	A						
Ethylene Oxide	D	D	A	A	A	A	A
Ethylene Oxide, (12%) and Freon 12 (80%)	D						
Ethylene Trichloride	A	A	A				
Ethyleneimine							
Ethylmorpholine Stannous Octotat (50/50 mixture)	D						
Ethylmorpholine	A						
Ethylsulfuric Acid	C						
F-60 Fluid (Dow Corning)	A	A					
F-61 Fluid (Dow Corning)	A	A					
Fatty Acids	A	A	A		A	C	
FC-43 Heptacosofluorotri-butylamine	A						
FC75 & FC77 (Fluorocarbon)	B						
Ferric Acetate	C	C					
Ferric Ammonium Sulfate	C						
Ferric Chloride	A	A	A	A	A	A	
Ferric Ferrocyanide	C						
Ferric Hydroxide	C	A	A				
Ferric Nitrate	A	A	A	A	A		A
Ferric Persulfate	A						
Ferric Sulfate	A	A	A		A	A	A
Ferrous Ammonium Citrate	C						
Ferrous Ammonium Sulfate	C	A					
Ferrous Carbonate	C						
Ferrous Chloride		A	A		A	A	D
Ferrous Iodide	C						
Ferrous Sulfate	C	A	A		A	A	C
Ferrous Tartrate	C						
Fish Oil	A	A	A				
Fisher Reagent							
Fluorinated Cyclic Ethers							
Fluorine (Gas)		A	B	D			
Fluorine (Liquid)	B	A	B				D
Fluorobenzene	A	A	A				
Fluoroboric Acid					A	A	
Fluorocarbon Oils							
Fluoroform (Trifluoromethane)							
Fluorolube	B		B				
Fluorophosphoric Acid							
Fluorosilicic Acid	B	A	A		A	A	B
Fluorosulfonic Acid							
Formaldehyde	D	C	A	D	D	C	A
Formamide	C		A				
Formic Acid	D	C	B		A	A	B
Freon, 11	B	B	B	A	B		A
Freon, 112 (Tetrachlorodifluoroethane)	A	B	B				
Freon, 113	B	C	C				A
Freon, 113 + High and Low Aniline Oil		C					
Freon, 114	A	B	C				
Freon, 114B2	B	B	C				
Freon, 115, 116	B	B	C				
Freon, 12	C	B	B	A	B		D
Freon, 12 and ASTM Oil #2 (50/50 Mixture)	A	B					
Freon, 12 and Suniso 4G (50/50 Mixture)	A	B					
Freon, 123 (Dichlorotrifluoroethane)							
Freon, 124 (Chlorotetrafluoroethane)							
Freon, 125 (Pentafluoroethane)							
Freon, 13	A		A				
Freon, 134a (Tetrafluoroethane)			B				
Freon, 13B1	A		B				
Freon, 14	A		A				
Freon, 141b (Dichlorofluoroethane)							
Freon, 142b	B						
Freon, 152a (Difluoroethane)							
Freon, 21	D	D	B				
Freon, 218	A						
Freon, 22 (Chlorodifluoroethane)	D	D	B	A	B		A
Freon, 22 and ASTM Oil #2 (50/50 Mixture)	B	D	B				
Freon, 23 (Fluoroform)							
Freon, 31	D	D	B				
Freon, 32	D	D	B				
Freon, 502	B		C				
Freon, BF (R112)	A	B					
Freon, C316	A	B	B				
Freon, C318	B	B	C				
Freon, K-142b	D		C				
Freon, K-152a	D		C				
Freon, MF (R11)	B						
Freon, PCA (R113)	B		C				
Freon, TA	D	D	C				

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Freon, TC	B	B	B				
Freon, TF (R113)	B	B					A
Freon, TMC	B	B	B				
Freon, T-P35	B	B	B				
Freon, T-WD602	A	B	B				
Fuel Oil, #6	A	A	A	A	A		A
Fuel Oil, 1, and 2	A						A
Fuel Oil, Acidic	A						A
Fumaric Acid	A	A	A				
Fuming Sulphuric Acid (20/25% Oleum)	A						
Furaldehyde	D	C					
Furan (Furfuran)	C	C	A				A
Furfural (Furfuraldehyde)	D	C	B	D	D		A
Furfuraldehyde	D	C					
Furfuryl Alcohol	B	A	A				
Furoic Acid							
Furyl Carbinol							
Fyrquel 150 220 300 550	A	A					
Fyrquel 90, 100, 500	A	A					
Fyrquel A60	D	A					
Gallic Acid	A	A	A	B	D		A
Gasoline	A	A	A		A	A	A
Gelatin	A	A	A	A	A		A
Germane (Germanium Tetrahydride)							
Girling Brake Fluid	D	B					
Glauber's Salt	A	A	A				
Gluconic Acid	C	B	A				
Glucose	A	A	A	A	A	A	A
Glue		A				A	A
Glutamic Acid	C	B					
Glycerine (Glycerol)	A	A	A	A	A	A	A
Glycerol Dichlorohydrin	C						
Glycerol Monochlorohydrin	C						
Glycerol Triacetate	C						
Glycerophosphoric Acid	C						
Glyceryl Phosphate	C						
Glycidol	C						
Glycol Monoether							
Glycolic Acid	C		A	B	D		
Glycols	A	A	A				
Glyoxylic Acid	C						
Grease Petroleum Base	A		A				A
Green Sulfate Liquor	A	A	B				
Gulf Endurance Oils	A	A					
Gulf FR Fluids (Emulsion)	A						
Gulf FR G-Fluids	A						
Gulf FR P-Fluids	B						
Gulf Harmony Oils	A						
Gulf High Temperature Grease	A						
Gulf Legion Oils	A						
Gulf Paramount Oils	A						
Gulf Security Oils	A						
Gulfcrown Grease	A						
Halothane	A	A	B				
Halowax Oil	A	A	B				
Hannifin Lube A	A						
Heavy Water		A	A				
HEF-2 (High Energy Fuel)	A	A	A				
Helium	A	A	A				
Heptachlor	A	A					
Heptachlorobutene	A						
Heptaldehyde (Heptanal)	D	C					
Heptane or n-Heptane	A	A	A	D	B		A
Heptanoic Acid	A	A					
Hexachloroacetone	C	B					
Hexachlorobutadiene	A		A				
Hexachlorobutene	A						
Hexachloroethane	A	A					
Hexaethyl Tetraphosphate							
Hexafluoroethane (F-116)							
Hexafluoroxylene							
Hexaldehyde or n-Hexaldehyde	D	C					
Hexamethyldisilazane							
Hexamethylene (Cyclohexane)	A						
Hexamethylene Diammonium Adipate	A						
Hexamethylenediamine	C						
Hexamethylenetetramine	C	C					
Hexane or n-Hexane	A	A	A	D	B		A
Hexene-1 or n-Hexene-1	A	A					
Hexone (Methyl Isobutyl Ketone)	C	C	A				
Hexyl Acetate	C	C					
Hexyl Alcohol	A	A	A				
Hexylene Glycol	C	A	A				
Hexylresorcinol	A	A					
High Viscosity Lubricant, H2	A	A					
High Viscosity Lubricant, U4	A	A					
HiLo MS #1	D						
Houghto-Safe 1010 phosphate ester	A	A					
Houghto-Safe 1055 phosphate ester	A	A					

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Houghto-Safe 1120 phosphate ester	A	A					
Houghto-Safe 271 (Water & Glycol Base)	B	A					
Houghto-Safe 416 & 500 Series		A					
Houghto-Safe 5040 (Water/Oil emulsion)	A	A					
Houghto-Safe 620 Water/Glycol	B	A					
Hydraulic Oil (Petroleum Base, Industrial)	A	A	A				A
Hydraulic Oils (Synthetic Base)	A	A	A				A
Hydrazine	D	C	A	C	D		A
Hydrazine (Anhydrous)	D	C	B				
Hydrazine Dihydrochloride	C						
Hydrazine Hydrate	C	C					
Hydriodic Acid	A	A				A	
Hydroabietyl Alcohol							
Hydrobromic Acid	A	A	A		A	A	D
Hydrobromic Acid 40%	A						D
Hydrocarbons, Saturated	A						
Hydrochloric Acid (cold) 37%	A	A	A	A	B	A	A
Hydrochloric Acid (hot) 37%	A	A	A	A	B	A	D
Hydrochloric Acid, 3 Molar to 158°F	A	A	A	A	A	A	D
Hydrochloric Acid, Concentrated Room Temp.	A	A	A	A	A	A	D
Hydrochloric Acid, Concentrated to 158°F	A	A	A	A		A	D
Hydrocyanic Acid	A	A	A	A		A	A
Hydro-Drive MIH-10 (Petroleum Base)	A						
Hydro-Drive MIH-50 (Petroleum Base)	A						
Hydrofluoric Acid (Anhydrous)		C	A	D	A	A	D
Hydrofluoric Acid (conc.) Cold		C		D	A	C	D
Hydrofluoric Acid (conc.) Hot 4.3	C	C		D	A		D
Hydrofluorosilicic Acid	A	A	A				D
Hydrogen Bromide (Anhydrous)			A				
Hydrogen Chloride (Anhydrous)			A				
Hydrogen Chloride gas	A						
Hydrogen Cyanide		A					
Hydrogen Fluoride			A				
Hydrogen Fluoride (Anhydrous)	D	C	A				
Hydrogen Gas, Cold	A		A	A	A		A
Hydrogen Gas, Hot	A						
Hydrogen Iodide (Anhydrous)							
Hydrogen Peroxide	A	A	A	A	A		C
Hydrogen Peroxide 90%	A	A	A		A		B
Hydrogen Selenide							
Hydrogen Sulfide, Dry, Cold	D	C	A	A	A		A
Hydrogen Sulfide, Dry, Hot	D	C					A
Hydrogen Sulfide, Wet, Cold	D	C	A				A
Hydrogen Sulfide, Wet, Hot	D	C					A
Hydrolube-Water/Ethylene Glycol	A	A	A				
Hydroxycitronellal	A						
Hydroquinol	A						
Hydroquinone	B	A	B		A		
Hydroxyacetic Acid	C	B	A				
Hydrene	D	D					
Hyjet	D	C					
Hyjet IV and IVA	D	C					
Hyjet S4	D	C					
Hyjet W	D	C					
Hypochlorous Acid	A	A	A				
Indole	A		A				
Industron FF44	A						
Industron FF48	A						
Industron FF53	A						
Industron FF80	A						
Insulin	C						
Iodic Acid	C						
Iodine	A	A			A	A	C
Iodine Pentafluoride	D	C	B				
Iodoform	B	B	A				A
Isoamyl Acetate	C	C	A				
Isoamyl Butyrate	C	B	A				
Isoamyl Valerate	C	A					
Isoboreol	A						
Isobutane	A	A	A				A
Isobutyl Acetate	C	C					
Isobutyl Alcohol	A	A	A	C	A		A
Isobutyl Chloride	A	A	A				
Isobutyl Ether	D	C					
Isobutyl Methyl Ketone	C	C					
Isobutyl n-Butyrate	A						
Isobutyl Phosphate	C						
Isobutylene	A	A					
Isobutyraldehyde	D						
Isobutyric Acid	D	B					
Isocrotyl Chloride	A						
Isodecanol	A	A					
Isododecane	A	A					
Isoeugenol	A	A					
Isooctane	A	A	A	D	A		A
Isopentane	A	A	A				
Isophorone (Ketone)	D	A	A				
Isopropanol	A	A	A				
Isopropyl Acetate	D	B	A	B	D		A

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Isopropyl Alcohol	A	A	A	C	A		A
Isopropyl Chloride	A	A	A				
Isopropyl Ether	D	C	A	C	D		A
Isopropylacetone	C	B					
Isopropylamine	C	B					
Jet Fuel A	A	A		D			A
JP-10	A	A					
JP-3 (MIL-J-5624)	A	A					A
JP-4 (MIL-T-5624)	A	A					A
JP-5 (MIL-T-5624)	A	A					A
JP-6 (MIL-J-25656)	A	A					A
JP-8 (MIL-T-83133)	A	A			A		
JP-9 (MIL-F-81912)	A	A					
JP-9 -11	A	A					
JPX (MIL-F-25604)	D	C					
Kel F Liquids	B		B				
Kerosene (Similar to RP-1 and JP-1)	A	A	A		A	D	A
Ketones				D	D	C	A
Keystone #87HX-Grease	A						
Lacquer Solvents	D	B	A		D	D	A
Lacquers	D	B	A				A
Lactams-Amino Acids	D	A	A				
Lactic Acid, Cold	A	A	A	A	D	A	A
Lactic Acid, Hot	A	A	A	B	D		A
Lactones (Cyclic Esters)	D						
Lard Animal Fat	A	A	A	C	A		A
Lauric Acid	A	A					A
Lavender Oil	A	A					A
LB 135	A						
Lead (Molten)							
Lead Acetate	D	B	A		A	A	A
Lead Arsenate	C						
Lead Azide							
Lead Bromide	C						
Lead Carbonate	C						
Lead Chloride	C	A	A				
Lead Chromate	C		A				
Lead Dioxide	C	A					
Lead Linoleate	C						
Lead Naphthenate							
Lead Nitrate		A	A				A
Lead Oxide	C	A					
Lead Sulfamate	A		A				
Lehigh X1169	A						
Lehigh X1170	A						
Light Grease	A		A				
Ligroin (Petroleum Ether or Benzene)	A	A	A				A
Lime Bleach	A	A	A				
Lime Sulfur	A	A	A				A
Lindol, Hydraulic Fluid (Phosphate ester type)	B	A	A				
Linoleic Acid	B	A	A	C	A		B
Linseed Oil	A	A	A	C	A	B	A
Liquid Oxygen (LOX)	D	D					
Liquid Petroleum Gas (LPG)	A	A	A				
Liquimoly	A		A				
Lithium Bromide (Brine)	C	A	A				
Lithium Carbonate	C						
Lithium Chloride	C	A	A				A
Lithium Citrate	C						
Lithium Hydroxide	C	B	A			B	A
Lithium Hypochlorite	C						
Lithium Nitrate	C						
Lithium Nitrite	C						
Lithium Perchlorate	C						
Lithium Salicylate	C						
Lithopone	C		A				
Lubricating Oils (Crude & Refined)	A	A	A		A		A
Lubricating Oils (Synthetic base)	A	A	A		A		A
Lubricating Oils, Di-ester	A	A			A		A
Lubricating Oils, petroleum base	A	A			A		A
Lubricating Oils, SAE 10, 20, 30, 40, 50	A	A			A		A
Lye Solutions	B	A	A				
Magnesium Chloride	A	A	A	A	A	A	C
Magnesium Hydroxide	A	A	A	A	A		A
Magnesium Salts	A	A	A	A			
Magnesium Sulfite and Sulfate	A	A	A	A	A	A	A
Magnesium Trisilicate	X						
Malathion	A	A	A				
Maleic Acid	A	A	A	C	A		A
Maleic Anhydride	D	B	A				
Maleic Hydrazide	C						
Malic Acid	A	A	A		D	A	A
Mandelic Acid	C	C					
Manganese Acetate	C	B					
Manganese Carbonate	C		A				
Manganese Chloride	C	A	A				
Manganese Dioxide	C						
Manganese Gluconate	C						
Manganese Hypophosphite	C						

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Manganese Linoleate	C						
Manganese Naphthenate	C						
Manganese Phosphate	C						
Manganese Salts		A		A	A	A	
Manganese Sulfate	C	A	A				A
Manganous Chloride	C						
Manganous Phosphate	C						
Manganous Sulfate	C	A					
Mannitol	C						
MCS 312	A						
MCS 352	D						
MCS 463	D						
MDI (Methylene di-p-phenylene isocyanate)	C						
Mercaptan	A	B					
Mercaptobenzothiazole (MBT)	A						
Mercuric Acetate	C	B					
Mercuric Chloride	A	A	A		A		C
Mercuric Cyanide	C	A	A		A		A
Mercuric Iodide	C						
Mercuric Nitrate	C		A				
Mercuric Sulfate	C	A					
Mercuric Sulfite	C						
Mercurous Nitrate	C	A					
Mercury	A	A	A	A	A		A
Mercury Chloride	C			A			
Mercury Fulminate	C						
Mercury Salts	C			A	A	A	
Mercury Vapors	A						
Mesityl Oxide (Ketone)	D	C	A				
Meta-Cresol	A						
Metaldehyde	C	C					
Meta-Nitroaniline	C						
Meta-Toluidine	A						
Methacrylic Acid	C		A				
Methallyl Chloride	A						
Methane	A	A			A	A	A
Methanol	D	A		A	D	A	A
Methoxychlor							
Methoxyethanol (DGMMA)	C						
Methyl Abietate	A	A					
Methyl Acetate	D	B	A	B	D		A
Methyl Acetoacetate	D	B	A				
Methyl Acetophenone*	A	B					
Methyl Acrylate	D	C	A				
Methyl Alcohol	D	A	A				
Methyl Amylketone	C	B					
Methyl Anthranilate	A	A					
Methyl Benzoate	A	A	A				
Methyl Bromide	A	A	A	C	D		B
Methyl Butyl Ketone	D	B	A				A
Methyl Butyrate Cellosolve	C		A				
Methyl Butyrate Chloride	C						
Methyl Carbonate	A	A	A				
Methyl Cellosolve	D	B	A				A
Methyl Cellulose	D	B	A				
Methyl Chloride	A	A	A	C		D	A
Methyl Chloroacetate	C	B					
Methyl Chloroform	A	A					A
Methyl Chloroformate	A	A	A				
Methyl Chlorosilanes							
Methyl Cyanide (Acetonitrile)	C		A				
Methyl Cyclohexanone	A	C					
Methyl Dichloride	A		A				
Methyl Ether	A	B	A				
Methyl Ethyl Ketone (MEK)	D	B	A	D	D	C	A
Methyl Ethyl Ketone Peroxide	D		A				
Methyl Ethyl Oleate	A						
Methyl Formate		B	A				A
Methyl Hexyl Ketone (2-Octanone)	C	B					
Methyl Iodide	A		A				
Methyl Isobutyl Ketone (MIBK)	D	B	A	D	D		A
Methyl Isocyanate	C	B					
Methyl Isopropyl Ketone	D	B					A
Methyl Isovalerate	A						
Methyl Lactate	C						
Methyl Mercaptan		A	A				
Methyl Methacrylate	D	B	A	D	C		
Methyl Oleate	A	A	A				
Methyl Pentadiene	A						
Methyl Phenylacetate	A	B					
Methyl Salicylate		A	A				
Methyl Tertiary Butyl Ether (MTBE)	C	B					
Methyl Valerate	A						
N-Methyl-2-Pyrrolidone (NMP)	C		A	A			
Methylacrylic Acid	C						
Methylal							
Methylamine	C						A
Methylamyl Acetate	C						
Methylcyclopentane	A						



Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Methylene Bromide	A		A				
Methylene Chloride	B		A	C	D		A
Methylene Iodide	A						
Methylglycerol	C						
Methylisobutyl Carbinol	A						
Methylpyrrolidine	A						
Methylpyrrolidone	A						
Methylsulfuric Acid	C						
MIL-A-6091	A	A					
MIL-C-4339	A	A					
MIL-C-7024	A	A					
MIL-C-8188	B	A					
MIL-E-9500	A	A					
MIL-F-16884	A	A					
MIL-F-17111	A	A					
MIL-F-25558 (RJ-1)	A	A					
MIL-F-25656	A	A					
MIL-F-5566	A	A					
MIL-F-81912 (JP-9)	A	A					
MIL-F-82522 (RJ-4)	A	A					
MIL-G-10924	A	A					
MIL-G-15793	A	A					
MIL-G-21568	A	A					
MIL-G-25013	A	A					
MIL-G-25537	A	A					
MIL-G-25760	A	A					
MIL-G-3278	A	A					
MIL-G-3545	A	A					
MIL-G-4343	A	A					
MIL-G-5572	A	A					
MIL-G-7118	A	A					
MIL-G-7187	A	A					
MIL-G-7421	A	A					
MIL-G-7711	A	A					
MIL-H-13910	A	A					
MIL-H-19457	A	A					
MIL-H-22251		A					
MIL-H-27601	A	A					
MIL-H-46170 -15°F to +400°F	A	A					
MIL-H-46170 -20°F to +275°F	A	A					
MIL-H-46170 -55°F to +275°F	A	A					
MIL-H-46170 -65°F to +275°F	A	A					
MIL-H-5606 -65°F to +235°F	A	A					
MIL-H-5606 -65°F to +275°F	A	A					
MIL-H-6083	A	A					
MIL-H-7083	B	A					
MIL-H-8446 (MLO-8515)	A	A					
MIL-J-5161	A	A					
Milk	A	A			A		A
MIL-L-15016	A	A					
MIL-L-15017	A	A					
MIL-L-17331	A	A					
MIL-L-2104	A	A					
MIL-L-21260	A	A					
MIL-L-23699	A	A					
MIL-L-25681	A	A					
MIL-L-3150	A	A					
MIL-L-6081	A	A					
MIL-L-6082	A	A					
MIL-L-6085	A	A					
MIL-L-6387	A	A					
MIL-L-7808	A	A					
MIL-L-7870	A	A					
MIL-L-9000	A	A					
MIL-L-9236	A	A					
MIL-O-3503	A	A					
MIL-P-27402		A					
MIL-R-25576 (RP-1)	A	A					
MIL-S-3136, Type I Fuel	A	A					
MIL-S-3136, Type II Fuel	A	A					
MIL-S-3136, Type III Fuel	A	A					
MIL-S-3136, Type IV Oil High Swell	A	A					
MIL-S-3136, Type IV Oil Low Swell	A	A					
MIL-S-3136, Type V Oil Medium Swell	A	A					
MIL-S-81087	A	A					
MIL-T-5624, JP-4, JP-5	A	A					
MIL-T-83133	A	A					
Mineral Oils	A	A	A		A		A
Mixed Acids	C					A	
MLO-7277 Hydr.	A	A					
MLO-7557	A	A					
MLO-8200 Hydr.	A	A					
MLO-8515	A	A					
Mobil 24dte	A	A					
Mobil 254 Lubricant		A					
Mobil Delvac 1100, 1110, 1120, 1130	A	A					
Mobil HF	A	A					
Mobil Nivac 20, 30	A	A					
Mobil SHC 500 Series	A	A					

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Mobil SHC 600 Series	A	A					
Mobil Therm 600	A	A					
Mobil Velocite c	A	A					
Mobilgas WA200 ATF	A	A					
Mobilgear 600 Series	A	A					
Mobilgear SHC ISO Series	A	A					
Mobilgrease HP	A	A					
Mobilgrease HTS	A	A					
Mobilgrease SM	A	A					
Mobilith AW Series	A	A					
Mobilith SHC Series	A	A					
Mobiljet II Lubricant		A					
Mobilmistlube Series	A	A					
Mobiloil SAE 20	A	A					
Mobilux	A						
Molybdenum Disulfide Grease	A	A				A	
Molybdenum Oxide	C						
Molybdenum Trioxide	C						
Molybdic Acid	C						
Monobromobenzene	A	A	A				
Monobromotoluene	A						
Monobutyl Paracresol							
Monochloroacetic Acid	C	B	A				C
Monochlorobenzene	A	A	A				A
Monochlorobutene	A						
Monochlorohydrin							
Monoethanolamine (MEA)	D		A	C		D	A
Monoethyl Amine	C		A				
Monoisopropylamine	C		A				
Monomethyl Aniline	B						
Monomethyl Ether (Dimethyl Ether)			A				
Monomethyl Ether (Methyl Ether)	A	A	A				
Monomethyl Hydrazine			A				
Monomethylamine (MMA)	C						
Monomethylaniline	B	A					
Mononitrotoluene	C						
Mononitrotoluene & Dinitrotoluene (40/60 Mixture)	C						
Monovinyl Acetylene	A	A					
Mopar Brake Fluid	D						
Morpholine	A		A				B
Motor Oils	A			D	A		A
Mustard Gas		A	A				A
Myristic Acid	A	A					
Naphthalene	A	A	A	D	A		A
Naphthalene Chloride	A	A					B
Naphthalene Sulfonic Acid	A						
Naphthalenic Acid	A	A	A				
Naphthalonic Acid	A						
Naphthenic Acid	A						
Naphthylamine	C	A					
Naptha	A			D	A	D	A
Natural Gas	A	A	A		A	A	A
Neatsfoot Oil	A		A				
Neon	A	A	A				
Neville Acid	A	A	A				
Nickel Acetate	D	B	A				
Nickel Ammonium Sulfate	C	A					A
Nickel Chloride	A	A	A	A	A		A
Nickel Cyanide	C						
Nickel Nitrate	C	A	A	A	A		A
Nickel Salts	A		A	A	A	A	
Nickel Sulfate	A	A	A	A	A		B
Nicotinamide (Niacinamide)	A						
Nicotinamide Hydrochloride	C						
Nicotine	A	A					A
Nicotine Sulfate	C						
Niter Cake	A	A	A				
Nitric Acid, Red Fuming	B	A	B				
Nitric Acid, White Fuming		A					
Nitric Acid (0 - 50%)	A	A		A		A	A
Nitric Acid (50 - 100%) 4 3	C	A			C		B
Nitric Acid 3 Molar to 158°F	C	A	A			A	
Nitric Acid Concentrated Room Temp.	B	A	A			A	B
Nitric Acid Concentrated to 158°F	D	A					C
Nitroaniline	C						
Nitrobenzene	B	A	A	D	D	D	B
Nitrobenzoic Acid	C						
Nitrocellulose	C						
Nitrochlorobenzene	C						
Nitrochloroform	C						
Nitrodiethylaniline	C						
Nitrodiphenyl Ether							
Nitroethane	D	C	A				
Nitrofluorobenzene	C						
Nitrogen	A	A	A				A
Nitrogen Oxides	C	C				A	
Nitrogen Tetroxide (N2O4)	D	C	A				
Nitrogen Trifluoride							
Nitroglycerine	C						A

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Nitroglycerol	C						
Nitroisopropylbenzene	C						
Nitromethane	D		A	D	D		
Nitrophenol	C	C					
Nitropropane	D	C	A				
Nitrosyl Chloride							
Nitrosylsulfuric Acid							
Nitrothiophene	C						
Nitrotoluene	C	B					
Nitrous Acid	C		A	A	A	A	B
Nitrous Oxide	A	B			A		A
Nonane	A	A					
Nonyl GE Phenolic							
Nyvax FR200 Mobil	A						
Octachloro Toluene	A	A	A				
Octadecane	A	A	A				
Octanal (n-Octanaldehyde)	A	C	A				
Octane or n-Octane	A	A					A
Octyl Acetate	C	B	A				
Octyl Alcohol	A	A	A				
Octyl Chloride	A	A					
Octyl Phthalate	A	A					
Olefins	A	A					
Oleic Acid	B	A	A	C	A		A
Oleum (Fuming Sulfuric Acid)	A	A	A	A			A
Oleum Spirits	A	A			A		
Oleyl Alcohol	A	A					
Olive Oil	A	A	A	A	A		A
Oronite 8200	A	A					
Oronite 8515	A	A					
Ortho-Chloro Ethyl Benzene	A	A	A				
Ortho-Chloroaniline	C						
Ortho-Chlorophenol	C						
Ortho-Cresol	C						
Ortho-Dichlorobenzene	A			D	D		
Ortho-Nitrotoluene	C						
Orthophos Acid							
OS 45 Type III (OS45)	A	A					
OS 45 Type IV (OS45-1)	A	A					
OS 70	A	A					
Oxalic Acid	A	A	A	B	D	A	B
Oxygen, 200°-300°F (Evalute for specific applications)	B	A	A				A
Oxygen, 300°-400°F (Evalute for specific applications)	B	A	A				A
Oxygen, Cold (Evalute for specific applications)	A	A		A	A	A	A
Oxygen, Liquid	D	D	D				A
Ozonated Deionized Water	C						
Ozone	A	A	A	A	A		A
Paint Thinner, Duco	B	A	A	B			
Palmitic Acid	A	A	A	C	A	C	A
Para-Aminobenzoic Acid	C						
Para-Bromobenzylphenyl Ether							
Para-Chlorophenol	C						
Paracymene	A						
Para-Dichlorobenzene	A		A				
Paraffins	A	A	A	D	B		A
Para-Formaldehyde	C						
Paraldehyde	C	C	A				
Par-al-Ketone	D	C	A				
Para-Nitroaniline	C						
Para-Nitrobenzoic Acid	C						
Para-Nitrophenol	C						
Parathion	A						
Para-Toluene Sulfonic Acid	C						
Parker O Lube	A						
Peanut Oil	A	A	A				A
Pectin (Liquor)	A						
Pelagonic Acid	A						
Penicillin (Liquid)	A		A				
Pentachloroethane	A	A	A				
Pentachlorophenol	C	A	A				
Pentaerythritol	C						
Pentaerythritol Tetranitrate	C						
Pentafluoroethane (F-125)							
Pentane or n-Pentane	A	A	A				A
Pentane, 2 Methyl	A						
Pentane, 2-4 dimethyl	A						
Pentane, 3-Methyl	A						
Pentoxone		C					
Pentyl Pentanoate	A						
Peracetic Acid	C						
Perchloric Acid - 2N	A	A	A	A	A	A	A
Perchloroethylene	A	A	A	C	D	D	A
Perfluoropropane							
Perfluorotriethylamine							
Permanganic Acid							
Persulfuric Acid (Caro's Acid)							
Petrolatum	A	A	A				A
Petrolatum Ether	A	A					
Petroleum Oil, Above 250°F	B	A	A				

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Petroleum Oil, Below 250°F	A	A	A				
Petroleum Oil, Crude	A	A	A				
Phenol	A	A	A	A	A	A	A
Phenol, 70% / 30% H2O	A	A	A	A	A		A
Phenol, 85% / 15% H2O	A	A	A	A	A		A
Phenolic Sulfonate	C						
Phenolsulfonic Acid	C	A	A				
Phenylacetamide	A						
Phenylacetate	C	B	A				
Phenylacetic Acid	C						
Phenylbenzene	A	A	A				
Phenylene Diamine		C					
Phenylethyl Alcohol	A						
Phenylethyl Ether	D	B	A				
Phenylethyl Malonic Ester*	A						
Phenylglycerine	C						
Phenylhydrazine	A	B	A				
Phenylhydrazine Hydrochloride	C						
Phenylmercuric Acetate	C	C					
Phorone	D	C	A				
Phosgene		D	A				
Phosphine							
Phosphoric Acid 3 Molar to 158°F	A	A	A	B	A		
Phosphoric Acid Concentrated Room Temp	A	A	A	B	A		C
Phosphoric Acid Concentrated to 158°F	A	A	A	B	A		C
Phosphoric Acid, 20%		A	A	B	A	A	
Phosphoric Acid, 45%		A	A	B	A	A	B
Phosphorus (Molten)							
Phosphorus Oxychloride			A				
Phosphorus Trichloride	A	A	A				
Phosphorus Trichloride Acid	A		A		B		A
Phthalic Acid	C	A		A	A	A	A
Phthalic Anhydride	C	C	A	A	D		B
Pickling Solution 3 2	B	A					
Picric Acid (aq)	A	A	A	D	A		A
Picric Acid Molten	A						
Pine Oil	A	A	A				A
Pine Tar	A	A					
Pinene	A	A	A				
Piperazine	A						
Piperidine	A		A				
Piranha (H2SO4:H2O2) (70:30)							
Plating Solution (Co,Cu,Au,In,Fe,Pb,Ni,Ag,Sn,Zn)	A	A			A	A	A
Plating Solutions Chrome	A	A	A		A	A	A
Plating Solutions Others	A	A			A	A	A
Pneumatic Service	A		A				
Polyethylene Glycol	C	A					
Polyglycerol	C						
Polyglycol	C					B	
Polyvinyl Acetate Emulsion							B
Potassium (Molten)							
Potassium Acetate	D	C	A				
Potassium Acid Sulfate	C						
Potassium Alum	C						
Potassium Aluminum Sulfate	C						A
Potassium Antimonate	C						
Potassium Bicarbonate	C	A	A				A
Potassium Bichromate	C						A
Potassium Bifluoride	C						
Potassium Bisulfate	C	A	A				A
Potassium Bisulfite	C	A	A				
Potassium Bitartrate	C						
Potassium Bromide	C	A	A				A
Potassium Carbonate	C	A	A		A	A	A
Potassium Chlorate	C	A	A			A	A
Potassium Chloride	A	A	A				A
Potassium Chromates	C	A	A				B
Potassium Citrate	C						
Potassium Cupro Cyanide	A						A
Potassium Cyanate	C		A				B
Potassium Cyanide	A	A			A		
Potassium Dichromate	A	A	A		A		A
Potassium Diphosphate	C						
Potassium Ferricyanide	C	A	A				
Potassium Fluoride	C	A	A				
Potassium Glucocyanate	C						
Potassium Hydroxide 50%	D	A	A		A	A	B
Potassium Hypochlorite	C	B	A				
Potassium Iodate	C		A				
Potassium Iodide	C	A	A		A	A	
Potassium Metabisulfate	C						
Potassium Metachromate	C						
Potassium Metasilicate							
Potassium Monochromate	C						
Potassium Nitrate	A	A	A				B
Potassium Nitrite	C		A				
Potassium Oxalate	C		A				
Potassium Perchlorate	C	A	A				
Potassium Perfluoro Acetate							

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Potassium Permanganate	C	A	A		A		B
Potassium Peroxide							
Potassium Persulfate	C		A				
Potassium Phosphate (Acid)	C		A				
Potassium Phosphate (Alkaline)	C						
Potassium Phosphate (Di/Tri Basic)	C						
Potassium Pyrosulfate	C						
Potassium Salts	A		A		A		
Potassium Silicate		A	A				
Potassium Sodium Tartrate	C						
Potassium Stannate	C						
Potassium Stearate	C	A					
Potassium Sulfate	A	A	A				B
Potassium Sulfide	C	A	A				B
Potassium Sulfite	A	A	A				A
Potassium Tartrate	C		A				
Potassium Thiocyanate	C		A				
Potassium Thiosulfate	C						
Potassium Triphosphate	C						A
Prestone Antifreeze	A	A					
PRL-High Temp. Hydr. Oil	A	A					
Producer Gas	A	A	A				
Propane	A	A	A	A	A		A
Propanol			A			A	
Propionaldehyde	C	C	A				
Propionic Acid	C	B	A				A
Propionitrile	A	C	A				
Propyl Acetate	D	C	A				A
Propyl Acetone or n-Propyl Acetone	D	B					
Propyl Alcohol	A	A	A				A
Propyl Nitrate	D		A				
Propyl Propionate	C						
Propylamine	C	C					
Propylbenzene	A	A					
Propylene	A	A	A				
Propylene Chloride	A	A	A				
Propylene Chlorohydrin	A						
Propylene Dichloride	A	A	A				
Propylene Glycol	C	A	A	A	A		A
Propylene Imine	A						
Propylene Oxide	D	D	A	A	A		A
Pydraul 90e	A	A					
Pydraul, 10E	D	A					
Pydraul, 115E	A	A					
Pydraul, 230C, 312C, 540C, A200	A	A					
Pydraul, 29ELT 30E, 50E, 65E	A	A					
Pyranol Transformer Oil	A	A					
Pyridine	A	A	A	C	D		B
Pyridine Oil	D	C				C	
Pyridine Sulfate	C						
Pyridine Sulfonic Acid	C						
Pyrogallol (Pyrogallol Acid)	A		A				A
Pyrogard 42, 43, 55	A	A					
Pyrogard 53, Mobil Phosphate Ester	A	A					
Pyrogard D, Mobil Water-in-Oil Emulsion	D	A					
Pyroligneous Acid	D	C					
Pyrolube	A	A					
Pyrosulfuric Acid	C						
Pyrosulfuryl Chloride	A						
Pyrrole	D	B	A				
Pyruvic Acid	C						
Quinidine	A						
Quinine	A	A	A				
Quinine Bisulfate	C						
Quinine Hydrochloride	C						
Quinine Sulfate	C						
Quinine Tartrate	C						
Quinizarin	A	A					
Quinoline	A	A					
Quinone	A	A	A				A
Radiation (Gamma, 1.0 E+07 Rads)	D	C					
Raffinate	A	A					
Rapeseed Oil	A	A	A				
Red Line 100 Oil	A	A					
Red Oil (MIL-H-5606)	A	A	A				
Resorcinol	C	A					
Rhodium							
Riboflavin	A	A					
Ricinoleic Acid	A	A					
RJ-1 (MIL-F-25558)	A	A	A				
RJ-4 (MIL-F-82522)	A	A					
Rosin	A	A	A				A
RP-1 (MIL-R-25576)	A	A					
Saccharin Solution	C						
Sal Ammoniac	A	A	A				
Salicylic Acid	A	A	A	A	D		A
Santo Safe 300	A	A					
Sea (Salt) Water	A	A	A			A	C
Sebacic Acid	C	A					

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Selenic Acid	C						
Selenous Acid	C						
Sewage	A	A	A				
SF 1154 GE Silicone Fluid	A	A					
SF1147 GE Silicone Fluid	A	A					
SF96 GE Silicone Fluid	A	A					
Shell 3XF Mine Fluid (Fire resist hydr.)	A	A					
Shell Alvania Grease #2	A	A					
Shell Carnea 19 and 29	A	A					
Shell Diala	A	A					
Shell Iru 905	A	AA					
Shell Lo Hydrax 27 and 29	A	A					
Shell Macome 72	A	A					
Shell Tellus #32 (Petroleum Base)	A	A					
Shell Tellus #68	A	A					
Shell Tellus 27 (Petroleum Base)	A	A					
Shell Tellus 33	A	A					
Shell UMF (5% Aromatic)	A	A					
Shellac	C	A					
Silane							
Silicate Esters	A	A	A				
Silicon Fluoride							
Silicon Tetrachloride			B				
Silicon Tetrafluoride							
Silicone Greases	A	A	A				
Silicone Oils	A	A	A	C	A	A	A
Silver Bromide	C		A				
Silver Chloride	C		A				C
Silver Cyanide	C	A	A				A
Silver Nitrate	A	A	A	A	A	A	A
Silver Sulfate	C	A					
Sinclair Opaline CX-EP Lube	A	A					
Skelly, Solvent B, C, E	A						
Skydrol 500 B4	D	C	A	D	A		
Skydrol 7000	B	A	A				
Skydrol LD-4	D	C					
Soap Solutions	A	A		A	A	A	A
Socony Mobile Type A	A	A					
Socony Vacuum AMV AC781 (Grease)	A	A					
Socony Vacuum PD959B	A	A					
Soda Ash	A	A					A
Sodium (Molten)		D					
Sodium Acetate	D	A	A	A	A		A
Sodium Acid Bisulfate	C						
Sodium Acid Fluoride	C						
Sodium Acid Sulfate	C						
Sodium Aluminate	C	A	A				A
Sodium Aluminate Sulfate	C						
Sodium Anthraquinone Disulfate	C						
Sodium Antimonate	C						
Sodium Arsenate	C	A					
Sodium Arsenite	C		A				
Sodium Benzoate	C	A		A	A		
Sodium Bicarbonate (Baking Soda)	A	A	A	A	A	A	A
Sodium Bichromate	C		A				A
Sodium Bifluoride	C						
Sodium Bisulfate or Bisulfite	A	A	A			A	A
Sodium Bisulfide	C						
Sodium Bitartrate	C						
Sodium Borate	A	A	A			A	A
Sodium Bromate	C		A				
Sodium Bromide	C	A	A				A
Sodium Carbonate (Soda Ash)	A	A	A	A	A	A	B
Sodium Chlorate	C	A	A	A	A	A	A
Sodium Chloride	A	A	A	A	A	A	C
Sodium Chlorite	C		A				
Sodium Chloroacetate	C	B					
Sodium Chromate	C	A	A				A
Sodium Citrate	C		A				
Sodium Cyanamide	C						
Sodium Cyanate	C						
Sodium Cyanide		A	A	A	A		A
Sodium Diacetate	C	B					
Sodium Diphenyl Sulfonate	C						
Sodium Diphosphate	C						
Sodium Disilicate	C						
Sodium Ethylate	C		A				
Sodium Ferricyanide	C	A	A			A	A
Sodium Fluoride	C	A	A	A	A		A
Sodium Fluorosilicate	C						
Sodium Glutamate	C						
Sodium Hydride							
Sodium Hydrogen Sulfate	C		A				
Sodium Hydrosulfide	C	A					
Sodium Hydrosulfite	C		A			A	
Sodium Hydroxide, 3 Molar	B	A	A	A	A	A	B
Sodium Hypochlorite	A	A	A	A		A	A
Sodium Hypophosphate	C						
Sodium Hypophosphite	C						

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Sodium Hyposulfite	C		A				A
Sodium Iodide	C	A	A				
Sodium Lactate	C		A				
Sodium Metaphosphate	A	A	A				A
Sodium Metasilicate	C	A	A				A
Sodium Methylate	C						
Sodium Monophosphate	C						
Sodium Nitrate		A	A	A	A	A	A
Sodium Oleate	C		A				
Sodium Orthosilicate	C						
Sodium Oxalate	C		A				
Sodium Perborate	A	A	A				C
Sodium Percarbonate	C						
Sodium Perchlorate	C		A				
Sodium Peroxide	A	A	A				A
Sodium Persulfate	C		A				
Sodium Phenolate	C						
Sodium Phenoxide	C						
Sodium Phosphate (Dibasic)	A	A	A				A
Sodium Phosphate (Mono)	A	A	A				A
Sodium Phosphate (Tribasic)	A	A	A				A
Sodium Plumbite	C						
Sodium Pyrophosphate	C		A				
Sodium Resinate	C						
Sodium Salicylate	C						
Sodium Salts	A	A	A	A	A		
Sodium Sesquisilicate	X	A					
Sodium Silicate	A	A	A			A	B
Sodium Silicofluoride							
Sodium Stannate	C						
Sodium Sulfate	A	A	A	A	A		A
Sodium Sulfide and Sulfite	A	A	A	A	A	A	B
Sodium Sulfocyanide	C						
Sodium Tartrate	C		A				
Sodium Tetraborate	C		A				A
Sodium Tetraphosphate	C						
Sodium Tetrasulfide	C						
Sodium Thioarsenate	C						
Sodium Thiocyanate	C	A					
Sodium Thiosulfate	A	A	A				A
Sodium Trichloroacetate	C						
Sodium Triphosphate	C						
Solvesso 100, 150		A					
Sorbitol	C	A					
Sour Crude Oil	A	B	B				A
Sour Natural Gas	A	B	A				
Sovasol No. 1, 2, and 3	A						
Sovasol No. 73 and 74	A						
Soybean Oil	A	A	A				A
Spry	A						
SR-10 Fuel	A	A					
SR-6 Fuel	A	A					
Standard Oil Mobilube GX90-EP Lube	A						
Stannic Ammonium Chloride	C						
Stannic Chloride	A	A	A		A		D
Stannic Chloride, 50%	A		A		A		
Stannic Tetrachloride	C						
Stannous Bisulfate	C						
Stannous Bromide	C						
Stannous Chloride (15%)	A	A					C
Stannous Fluoride	C	A					
Stannous Sulfate	C						
Stauffer 7700	A	A	A				
Steam Below 400°F	D	A	A			D	A
Steam, 400° - 500°F	D	C	A				A
Steam, Above 500°F		C	B				A
Stearic Acid		A	A	C	A	C	A
Stoddard Solvent	A	A	A				A
Strontium Acetate	C	C					
Strontium Carbonate	C						
Strontium Chloride	C						
Strontium Hydroxide	C						
Strontium Nitrate	C						
Styrene (Monomer)	B	A	A	D	A	D	A
Succinic Acid	C	A	A				A
Sucrose Solutions	A	A	A				
Sulfamic Acid	C	A	A				A
Sulfanilic Acid	C						
Sulfanilic Chloride	A						
Sulfanilimide	A						
Sulfite Liquors	C	A					A
Sulfolane	B	A					
Sulfonated Oils	A						
Sulfonic Acid	C						
Sulfonyl Chloride	C						
Sulfur	A		A				A
Sulfur (Molten)	A	A					
Sulfur Chloride	A	A	A	D	A		D
Sulfur Dioxide, Dry	D	A	A		A		A

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Sulfur Dioxide, Liquidified under pressure	D	A	A		A		A
Sulfur Dioxide, Wet	D	A	A				A
Sulfur Hexafluoride	C	A	B				
Sulfur Liquors	C						C
Sulfur Monochloride	A						
Sulfur Tetrafluoride		A					
Sulfur Trioxide Dry	A	A	A		B		C
Sulfuric Acid (20% Oleum)	C	A	A		A	A	C
Sulfuric Acid, 3 Molar to 158°F	A	A	A		A	A	D
Sulfuric Acid, Concentrated Room Temp	A	A	A		A	A	D
Sulfuric Acid, Concentrated to 158°F	A	A	A		A		D
Sulfuric Chlorohydrin (Chlorosulfonic Acid)	C	B					
Sulfurous Acid	A	B	A	A	A	A	B
Sunoco #3661	A	A					
Sunoco All purpose grease	A	A					
Sunoco SAE 10	A	A					
Sunsafe (Fire resist. hydr. fluid)	A	A					
Super Shell Gas	A	A					
Surfuryl Chloride	C						
Swan Finch EP Lube	A	A					
Swan Finch Hypoid-90	A						
Tallow	A	A					A
Tannic Acid (10%)	A	A	A		D	A	A
Tar, bituminous	A	A	A				A
Tartaric Acid	A	A	A	A	A	A	B
Tellone II							
Terephthalic Acid	C	A					
Terpineol	A	A	A				
Terpinyl Acetate	B	B					
Tertiary Amyl Methyl Ether (TAME)							
Tertiary Butyl Catechol or p-tert-butylcatechol	A		A				
Tertiary Butyl Mercaptan	A		A				
Tetrabromoethane	A	A	A				
Tetrabromomethane	A	A	A				
Tetrabutyl Titanate	A	A	A				
Tetrachloroethylene	A	A	A				
Tetrachloroethane	A	A	A				A
Tetraethyl Lead	A	A	A				
Tetraethyl Lead "Blend" V1164-75	A						
Tetraethyl Orthosilicate (TEOS)							
Tetrahydrofuran	D	B	A	D	D		A
Tetralin	A	A	A				
Tetramethyl Ammonium Hydroxide	C						
Tetramethylcyclotetrasiloxane (TMCTS)							
Tetramethyldihydropyridine	A						
Tetramethyldihydropyridine	A						
Tetraphosphoglucosate	C						
Tetraphosphoric Acid							
Texaco 3450 Gear Oil	A	A					
Texaco Capella A and AA	A	A					
Texaco Meropa 220 (No Lead)	A	A					
Texaco Regal B	A	A					
Texaco Uni-Temp Grease	A	A					
Texamatic "A" 1581 Fluid	A	A					
Texamatic "A" 3401 Fluid	A	A					
Texamatic "A" 3525 Fluid	A	A					
Texamatic "A" 3528 Fluid	A	A					
Texamatic "A" Transmission Oil	A	A					
Texas 1500 Oil	A	A					
Therminol 44	A	A					
Therminol 55	A						
Therminol 66							
Therminol FR							
Therminol VP-1, 60, 65	A						
Thio Acid Chloride							
Thioamyl Alcohol	A						
Thiodiacetic Acid	C						
Thioethanol	C						
Thioglycolic Acid	C		A				
Thiokol TP-90B	A	A					
Thiokol TP-95	A	A					
Thionyl Chloride	A	A	A	A	A		
Thiophene (Thiofuran)	C	C	A				
Thiophosphoryl Chloride	C						
Thiourea	C						
Thorium Nitrate	C						
Tidewater Multigear, 140 EP Lube	A						
Tidewater Oil-Beedol	A						
Tin Ammonium Chloride	C						
Tin Chloride	A			A			
Tin Tetrachloride	A			A			
Titanic Acid	C						
Titanium Dioxide	C	A					
Titanium Sulfate	C		A				
Titanium Tetrachloride	A	A	B				C
Toluene	A	A	A		C	D	A
Toluene Bisodium Sulfite							
Toluene Diisocyanate (TDI)	D	C					
Toluene Sulfonyl Chloride	A						



Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Toluenesulfonic Acid	C						
Toluidine	A	B	A				
Toluol	C	C	A	D			A
Toluquinone	A						
Tolylaldehyde	C						
Transformer Oil	A	A	A				A
Transmission Fluid Type A	A	A	A				
Triacetin	D	B	A				
Triaryl Phosphate	A						
Tribromomethylbenzene	A						
Tributoxyethyl Phosphate	A		A				
Tributyl Citrate	C	C					
Tributyl Mercaptan	A	A	A				
Tributyl Phosphate	D	C	A				A
Tributylamine							
Trichloroacetic Acid	C	B	A	B	D	A	B
Trichloroacetyl Chloride	A						
Trichlorobenzene	A	A	A				
Trichloroethane	A	A	A	C	D		A
Trichloroethanolamine	C						
Trichloroethylene	A	A	A	C	D	D	A
Trichloromethane	A						
Trichloronitromethane (Chloropicrin)	C						
Trichlorophenylsilane							
Trichloropropane	A	A	A	C	D		A
Trichlorosilane	A						
Tricresyl Phosphate	B	A		A	A		A
Triethanol Amine	D	C		C	D		A
Triethyl Phosphate	A						
Triethylaluminum		A					
Triethylborane		A	A				
Triethylene Glycol	C	A					
Triethylenetetramine	C	C					
Trifluoroacetic Acid	C		A				
Trifluoroethane	A		A				
Trifluoromethane	A						
Trifluorovinylchloride	A						
Triisopropylbenzylchloride	A						
Trimethylamine	C	C					
Trimethylamine (TMA)	C						
Trimethylbenzene	A						
Trimethylborate (TMB)	A						
Trimethylpentane	A	A	A				
Trinitrotoluene (TNT)	B	A	A				
Trioctyl Phosphate	B	A	A				
Triphenylphosphite	C		A				
Tripoly Phosphate	B		A				
Tripotassium Phosphate	C						
Trisodium Phosphate	C				A	A	A
Tritium							
Tung Oil (China Wood Oil)	A	A					
Tungsten Hexafluoride							
Tungstic Acid							
Turbine Oil	A	A	A				
Turbine Oil #15 (MIL-L-7808A)	A	A					
Turbo Oil #35	A	A					
Turpentine	A	A	A	D	A	D	A
Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A)	A	A	A				
Type II Fuel MIL-S-3136	A	A	A				
Type III Fuel MIL-S-3136(ASTM Ref. Fuel B)	A	A	A				
Ucon Hydrolube J-4	A	A					
Ucon Lubricant 50-HB-100	A	A					
Ucon Lubricant 50-HB-260	A	A					
Ucon Lubricant 50-HB-5100	A	A					
Ucon Lubricant 50-HB55	A	A					
Ucon Lubricant 50-HB-660	A	A					
Ucon Lubricant LB-1145	A	A					
Ucon Lubricant LB-135	A	A					
Ucon Lubricant LB-285	A	A					
Ucon Lubricant LB-300X	A	A					
Ucon Lubricant LB-625	A	A					
Ucon Lubricant LB-65	A	A					
Ucon Oil 50-HB-280X	C	C					
Ucon Oil Heat Transfer Fluid 500 (Polyalkylene Glycol)	A	A					
Ucon Oil LB-385	A	A					
Ucon Oil LB-400X	A	A					
Undecylenic Acid	A						
Undecylic Acid	A						
Univis 40 (Hydr. Fluid)	A	A					
Univolt #35 (Mineral Oil)	A	A					
Unsymmetrical Dimethyl Hydrazine (UDMH)	D		B				
UPDI(Ultrapur Deionized Water)	C						
Uranium Hexachloride	A						
Uranium Hexafluoride							
Uranium Sulfate Factory							
Uric Acid	C		A	A	C	A	
Valeraldehyde	C	C					
Valeric Acid	C	A	A				
Vanadium Oxide	A						

Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Norprene A-60-G	Chem Durance Bio	Stainless Steel AISI 316L
Vanadium Pentoxide	A						
Varnish	A	A	A				A
Vegetable Oil	A	A	A				A
Versilube F44, F55	A	A					
Versilube F-50	A	A					
Vinegar	C	A	A	A	D		A
Vinyl Acetate	C	C	A	B	D		
Vinyl Benzene	A		A				
Vinyl Benzoate	A						
Vinyl Chloride	A	A	A				
Vinyl Fluoride	A	A					
Vinylidene Chloride	A	A					
Vinylpyridine	A						
Vitriol (White)	C						
VV-H-910	A	A					
Wagner 21B Brake Fluid	D	B					
Water	A	A	A	A	A	A	A
Wemco C	A	A					
Whiskey and Wines	A	A	A				A
White Liquor	A	A					A
White Oil	A	A	A				A
White Pine Oil	A	A	A				
Wolmar Salt	A	A					
Wood Alcohol	D	A	A				
Wood Oil	A		A				
Xenon	A	A	A				
Xylene	A	A	A		C	D	A
Xylenes-Mixed-Aromatic Amines	D	C	A				
Xylol	A	A		D			
Zeolites	A	A	A				
Zinc Acetate	D	B	A				A
Zinc Ammonium Chloride	C	B	A				
Zinc Chloride	A	A	A	A	A	A	B
Zinc Chromate	C	B					
Zinc Cyanide	C	B					
Zinc Diethyldithiocarbamate	C	B					
Zinc Dihydrogen Phosphate	C						
Zinc Fluorosilicate							
Zinc Hydrosulfite	C	B	A				A
Zinc Naphthenate							
Zinc Nitrate	A	A	A				A
Zinc Oxide	A	A					
Zinc Phenolsulfonate	C	B					
Zinc Phosphate	A	A	A				
Zinc Salts	A	A	A	A	A		
Zinc Silicofluoride							
Zinc Stearate	C	A					
Zinc Sulfate	A	A	A				A
Zinc Sulfide	C	B					
Zirconium Nitrate	A	A					

Table 2

Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Norprene®	C-FLEX®	Silicone (peroxide/ platinum- cured)	Tygon® (Lab, Food)	CHEM-SURE®	Tygon® (Chemical)	Viton®	PTFE (Teflon)	Stainless steel
Acetaldehyde	D	A	B	D	A	D	D	A	A
Acetate LMW	A	A	—	D	—	C	—	A	A
Acetic acid <5%	A	A	A	A	A	B	—	A	B
Acetic acid >5%	A	A	A	B	A	B	B	A	B
Acetic anhydride	A	B	C	D	A	A	D	A	B
Acetone	D	C	C	D	A	C	D	A	A
Acetonitrile	B	A	—	D	—	B	D	A	A
Acetyl bromide	C	A	—	D	—	C	—	A	—
Acetyl chloride	C	A	C	D	A	C	A	A	A
Air	A	A	A	A	A	A	A	A*	A
Aliphatic hydrocarbons	D	D	—	D	—	D	—	—	B
Aluminum chloride	A	A	B	A	—	A	A	A	D
Aluminum sulfate	A	A	A	A	—	A	A	A	B
Alums	A	A	A	A	—	A	A	A	—
Ammonia, gas / liquid	A	A	C	B	—	B	D	A	B
Ammonium acetate	A	A	—	A	A	A	D	A	B
Ammonium carbonate	A	A	C	A	A	A	A	A	B
Ammonium chloride	A	A	C	A	A	A	A	A	C
Ammonium hydroxide	A	A	A	B	A	A	B	A	A
Ammonium nitrate	A	A	C	A	A	A	A	A	A
Ammonium phosphate	A	A	A	A	A	A	A	A	B
Ammonium sulfate	A	A	A	A	A	A	A	A	B
Amyl acetate	B	D	D	D	B	D	D	A	A
Amyl alcohol	D	D	D	D	A	A	A	A	A
Amyl chloride	C	D	D	D	—	D	A	A	A
Aniline	C	B	D	D	A	D	B	A	A
Aniline hydrochloride	C	B	D	D	A	D	B	A	D
Aqua regia (80 % HCl, 20 % H)	D	—	D	D	—	A	B	A	D
Aromatic hydrocarbons	D	D	—	D	—	D	A	—	B
Arsenic salts	A	—	—	A	—	A	D	—	—
Barium salts	A	A	A	A	A	A	A	A	B
Benzaldehyde	D	D	B	D	A	C	D	A	B
Benzenesulfonic acid	D	A	D	D	A	D	A	A	B
Bleaching liquors	A	B	B	A	—	A	A	A	—
Boric acid	A	A	A	A	A	A	A	A	B
Bromine	D	A	D	D	—	D	A	A	D
Butane	A	D	D	A	B	B	A	A	A
Butanol (butyl alcohol)	D	B	B	D	A	A	A	A	A
Butyl acetate	B	D	D	D	B	D	D	A	B
Butyric acid	B	A	D	D	A	D	B	A	B
Calcium oxide	A	—	A	A	—	A	A	A	A
Calcium salts	A	A	B	A	A	A	A	A	B
Carbon bisulfide	D	D	D	D	—	D	—	A	A
Carbon dioxide	A	A	B	A	A	A	A	A*	A
Carbon tetrachloride	D	B	D	D	B	D	A	A	B
Chlorine, dry	C	A	D	A	—	C	A	A*	A
Chlorine, wet	D	A	D	B	—	C	B	A	C
Chloroacetic acid	B	A	—	A	B	A	D	A	B
Chlorobenzene	D	D	D	D	A	D	A	B	A
Chlorobromomethane	B	D	D	D	—	—	A	A	—
Chloroform	C	D	D	D	B	D	A	A	A
Chlorosulfonic acid	D	A	D	D	A	D	D	A	D
Chromic acid, 30 %	A	A	C	B	—	B	A	A	B
Chromium salts	A	A	—	A	—	A	—	—	—
Copper salts	A	A	A	A	—	A	A	A	B
Cresol	D	D	D	D	A	A	A	A	A
Cyclohexane	D	D	D	D	B	D	A	A	A
Cyclohexanone	D	D	D	D	—	C	D	A	A
Diacetone alcohol	A	A	B	D	A	A	D	A	B
Dimethyl formamide	B	B	B	D	A	A	D	A	A
Essential oils	D	B	C	D	—	D	—	—	—
Ethanol (ethyl alcohol)	C	B	A	D	A	A	A	A	A
Ether	C	D	D	D	B	D	D	A	A
Ethyl acetate	B	D	B	D	A	D	D	A	B
Ethyl bromide	D	A	D	D	—	C	A	A	—
Ethyl chloride	C	A	D	D	—	D	A	A	A
Ethylamine	D	A	C	D	B	B	D	—	—
Ethylene chlorohydrin	A	A	C	D	—	A	A	A	B
Ethylene dichloride	C	A	D	D	B	D	A	A	B
Ethylene glycol	A	B	A	A	A	A	A	A	B
Ethylene oxide	A	A	D	A	B	A	D	A	B
Fatty acids	C	B	C	B	A	C	A	A	B
Ferric chloride	A	A	B	A	—	A	A	A	D
Ferric sulfate	A	A	B	A	A	A	A	A	B
Ferrous chloride	A	A	C	A	—	A	A	A	D
Ferrous sulfate	A	A	C	A	A	A	A	A	B
Fluoboric acid	D	A	A	A	—	A	—	A	B
Fluoroborate salts	A	A	—	A	—	A	—	—	—
Fluosilicic acid	C	A	D	A	—	A	A	A	C
Formaldehyde	D	A	B	D	A	C	D	A	C
Formic acid, 25 %	A	A	B	A	A	A	D	A	B
Freon® TMS	D	C	—	D	D	A	—	A	—
Gasoline, high-aromatic	D	D	D	D	B	D	A	B	A
Gasoline, nonaromatic	D	D	D	D	B	D	A	A	—
Glucose	A	A	A	A	A	A	A	A	A

Table 2

Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Norprene®	C-FLEX®	Silicone (peroxide/ platinum- cured)	Tygon® (Lab, Food)	CHEM-SURE®	Tygon® (Chemical)	Viton®	PTFE (Teflon)	Stainless steel
Glue, P.V.A.	A	A	A	A	—	—	A	A	A
Glycerin	A	B	A	A	—	A	A	A	A
Hydriodic acid	D	A	—	A	—	A	A	—	—
Hydrobromic acid, 30 %	D	A	D	A	—	A	A	A	D
Hydrochloric acid (dil)	A	A	D	A	A	A	A	A	D
Hydrochloric acid (med)	B	A	D	A	A	A	A	A	D
Hydrochloric acid (conc)	—	B	D	A	A	A	A	A	D
Hydrocyanic acid	A	A	C	A	A	A	A	A	B
Hydrocyanic acid, gas, 10 %	A	A	C	A	—	A	A	A	—
Hydrofluoric acid, 50 %	D	A	D	C	D	A	D	A	D
Hydrofluoric acid, 75 %	—	A	D	D	D	—	D	A	D
Hydrogen peroxide (dil)	A	A	A	A	A	A	A	A	B
Hydrogen peroxide, 90 %	B	D	B	D	A	B	A	A	B
Hypochlorous acid	A	A	D	A	A	A	A	A	—
Iodine solutions	A	C	C	A	—	A	A	A	D
Iodoform	—	—	—	—	—	—	C	—	A
Kerosene	D	D	D	D	A	D	A	A	A
Ketones	D	B	—	D	—	C	—	A	A
Lacquer solvents	B	D	D	D	A	D	D	A	A
Lactic acid, 3-10%	A	A	A	A	A	A	A	A	B
Lead acetate	A	A	D	A	—	A	D	A	B
Linseed oil	C	D	A	D	A	B	A	A	A
Lithium hydroxide	B	A	D	A	—	—	C	A	B
Magnesium chloride	A	A	A	A	A	A	A	A	B
Magnesium sulfate	A	A	A	A	A	A	A	A	B
Malic acid	A	A	B	A	A	A	A	A	A
Manganese salts	A	A	B	A	—	A	A	A	D
Mercury salts	A	A	—	A	—	A	A	A	B
Methane	A	D	D	A	B	A	A	A*	A
Methanol (methyl alcohol)	D	—	A	C	A	A	B	A	A
Methyl chloride	C	A	D	D	B	D	B	A	A
Methyl ethyl ketone (MEK)	D	—	D	D	B	C	D	A	A
Mixed acid (40% H <sub>2</sub> SO <sub>4</sub> , 15 % HNO <sub>3</sub> )	B	—	—	B	—	—	—	A	B
Molybdenum disulfide	—	A	—	—	—	—	A	—	—
Monoethanolamine	C	B	B	D	—	D	D	A	A
N-Methyl-2-Pyrrolidone (NMP) <sup>1</sup>	—	—	A	—	—	—	C	A	—
Naphtha	D	D	D	D	B	D	A	B	A
Natural gas	A	D	A	A	B	A	A	A*	A
Nickel salts	A	A	A	A	A	A	A	A	B
Nitric acid (dil)	A	A	B	A	A	A	B	A	A
Nitric acid (med)	A	—	C	A	A	A	A	A	A
Nitric acid (conc)	D	—	D	D	A	A	A	A	A
Nitrobenzene	D	D	D	D	A	D	B	A	B
Nitrogen oxides	A	A	D	A	—	A	D	A	—
Nitrous acid	A	A	—	A	—	A	—	A	B
Oils, animal	C	B	B	D	—	B	A	A	A
Oils, mineral	D	B	B	C	—	D	A	A	A
Oils, vegetable	C	B	B	D	A	B	A	A	A
Oleic acid	C	A	D	D	A	D	B	A	B
Oxalic acid, cold	B	A	B	B	A	A	A	A	B
Oxygen, gas	A	A	B	A	A	A	B	A*	A
Palmitic acid, 100 % in ether	C	—	D	D	A	C	A	A	B
Perchloric acid	A	A	D	C	A	A	A	A	C
Perchloroethylene	C	B	D	D	B	D	A	A	B
Phenol (carbolic acid)	A	D	D	B	A	A	A	A	B
Phosphoric acid, 50 %	A	A	C	A	A	A	A	A	A
Phthalic acid	A	D	B	D	—	A	B	A	B
Plating solutions	A	A	D	A	—	A	A	A	—
Polyglycol	B	B	A	A	—	—	A	—	—
Potassium carbonate	A	A	—	A	A	A	A	—	B
Potassium chlorate	B	A	B	A	A	—	A	A	B
Potassium hydroxide (med)	A	A	B	A	B	—	D	A	B
Potassium hydroxide (conc)	A	A	C	D	B	—	D	A	B
Potassium iodide	A	A	—	A	—	A	A	A	A
Propanol (propyl alcohol)	C	—	A	D	A	A	A	A	A
Pyridine	C	A	D	D	A	C	D	A	A
Silicone fluids	A	B	C	B	—	B	A	A	A
Silicone oils	C	B	C	B	—	B	A	A	A
Silver nitrate	A	A	A	A	A	A	A	A	B
Soap solutions	B	A	A	A	A	A	A	A	A
Sodium bicarbonate	A	A	A	A	A	A	A	A	B
Sodium bisulfate	A	A	—	A	A	A	A	A	D
Sodium bisulfite	A	A	A	A	A	—	A	A	B
Sodium borate	A	A	A	A	—	—	A	A	B
Sodium carbonate	A	A	A	A	A	A	A	A	A
Sodium chlorate	A	A	C	A	—	A	A	A	B
Sodium chloride	A	A	A	A	A	A	A	A	C
Sodium ferrocyanide	A	A	—	B	—	—	A	A	B
Sodium hydrosulfite	B	A	—	A	—	—	—	A	—
Sodium hydroxide (dil)	A	A	A	A	A	A	A	A	A
Sodium hydroxide, 25 %	A	B	B	C	—	A	A	A	B
Sodium hydroxide (conc)	—	C	—	C	—	A	A	A	C
Sodium hypochlorite, <5%	A	A	B	A	A	A	A	A	A
Sodium hypochlorite, >5%	A	A	B	A	A	A	A	A	C
Sodium nitrate	A	A	D	A	A	A	A	A	B

Table 2

Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com			Silicone (peroxide/ platinum- cured)	Tygon® (Lab, Food)	CHEM-SURE®	Tygon® (Chemical)	Viton®	PTFE (Teflon)	Stainless steel
	Norprene®	C-FLEX®							
Sodium silicate	A	A	A	A	A	—	A	A	B
Sodium sulfide	A	A	A	A	A	A	A	A	C
Sodium sulfite	A	A	A	A	A	A	A	A	A
Steam, up to 40 psi	C	—	A	D	A	—	B	A*	A
Stearic acid	C	A	B	A	A	C	A	A	B
Styrene	D	D	D	D	A	D	A	A	A
Sulfuric acid (dil)	A	A	D	A	A	A	A	A	D
Sulfuric acid (med)	A	A	D	A	—	A	A	A	D
Sulfuric acid (conc)	D	A	D	D	C	D	A	A	C
Sulfurous acid	A	A	D	A	—	A	B	A	B
Tannic acid	B	A	B	B	—	A	A	A	B
Tanning liquors	A	B	—	A	—	A	—	A	A
Tartaric acid	A	A	A	A	A	A	A	A	C
Tin salts	A	A	B	A	—	A	—	A	—
Toluene (toluol)	D	D	D	D	A	D	A	A	A
Trichloroacetic acid	B	A	D	A	—	A	C	A	D
Trichloroethylene	D	D	D	D	B	D	A	A	B
Trisodium phosphate	A	A	—	A	—	A	A	A	B
Turpentine	D	D	D	D	A	D	A	A	A
Urea	A	A	B	A	A	A	—	A	A
Uric acid	A	A	—	A	—	A	—	A	B
Water, fresh	A	A	B	A	A	A	A	A	A
Water, salt	A	A	A	A	A	A	A	A	B
Xylene	D	D	D	D	A	D	A	A	A
Zinc chloride	A	A	A	A	A	A	A	A	D

<sup>1</sup> see: <https://www.lyondellbasell.com/globalassets/documents/chemicals-technical-literature/elastomer-compatibility-2688>