

# Chemical resistance of materials in

## **ANALYSETTE 22 NEXT & ANALYSETTE 28 IMAGESIZER** LASER PARTICLE SIZER & PARTICLE SIZER

*This chart information is 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*





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## Materials in contact with liquid

### 1 Materials in contact with liquid

Wet dispersion units	Materials used in the sample circuit:
Wet dispersion unit (22.9200.00 until serial number 099)	stainless steel <sup>1</sup> , PTFE (Teflon) <sup>2</sup> , N-BK7 glass, FKM (Viton®) <sup>2</sup> , ETP-S (Viton® Extreme) <sup>3</sup> , POM <sup>a</sup> , Brass, Silicone hoses (LEZ-SIL 60 PFT) <sup>o</sup>
Wet dispersion unit (22.9200.00 from serial number 100 & 28.2600.00)	stainless steel <sup>1</sup> , PTFE (Teflon) <sup>2</sup> , N-BK7 glass, FKM (Viton®) <sup>2</sup> , Silicone hoses (LEZ-SIL 60 PFT) <sup>o</sup> , Silicone hosing with <b>FEP</b> hose core <sup>3</sup> , FFKM (Kalrez®) <sup>3</sup>
"Conversion Kit Extended" for extreme chemical resistance (22.9287.00 & 22.9288.00) from serial number 100	PTFE (Teflon) <sup>2</sup> , FFKM (Kalrez®) <sup>3</sup> , Silicone hosing with <b>FEP</b> hose core (Versilon SE-200) <sup>3</sup> , TPE (LEZ-SAN Santoprene®) <sup>3</sup> only drain hose
Ultrasonic box (22.9270.00 - 230V & 22.9280.00 - 110V) until serial number 199	stainless steel <sup>1</sup> , Silicone gasket (LEZ-SIL 60 PFT) <sup>o</sup> , FKM (Viton®) <sup>2</sup>
Ultrasonic box (22.9270.00 - 230V & 22.9280.00 - 110V) from serial number 200	stainless steel <sup>1</sup> , FFKM (Kalrez®) <sup>3</sup>

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

<sup>2</sup> See Table 2

<sup>3</sup> See Table 1

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

<sup>a</sup> See Table 3

## 2 Abbreviations

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

## Abbreviations

ASTM D1418 Abbreviation	Chemical name	Trade names	PPE Prefix
POM	Polyoxymethylene		
SBR	Styrene Butadine (Buna-S)	Cariflex S <sup>®</sup> , Plioflex <sup>®</sup> , Euro-prene <sup>®</sup> , Pliolite <sup>®</sup> , Buna Huls <sup>®</sup> , Carom <sup>®</sup> , Solprene <sup>®</sup>	B
TFE/P	Tetrafluoroethylene/Propylene	Aflas <sup>®</sup> , Flourel II <sup>®</sup> , Fluoraz <sup>®</sup>	A
TPE	Thermoplastisches Elastomer	LEZ-SAN Santoprene <sup>®</sup>	
VMQ / PVMQ	Silicone	Silastic <sup>®</sup> , Siloprene <sup>®</sup> , Rhodorsil <sup>®</sup> , Silplus <sup>®</sup>	S

### 3 List of chemical resistance

#### 3.1 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

#### 3.2 Note

The CHEMICAL PROPERTIES of N-BK7 glass see: [https://www.schott.com/d/advanced\\_optics/c36214d9-13c4-468c-bf40-8d438b89f532/1.30/schott-optical-glass-pocket-catalog-jan-2020-row.pdf](https://www.schott.com/d/advanced_optics/c36214d9-13c4-468c-bf40-8d438b89f532/1.30/schott-optical-glass-pocket-catalog-jan-2020-row.pdf)

#### 3.3 Table 1

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Abietic Acid		A	A		
Acetaldehyde	D	A	A	D	A
Acetamide	C	C	A	A	A
Acetanilide	C	A			
Acetic Acid, 30%		A	A	A	A
Acetic Acid, 5%	A	A	A	A	A
Acetic Acid, Glacial	B	A	A	A	A
Acetic Acid, Hot, High Pressure	D	B	A		A
Acetic Anhydride	D	C	A	A	A
Acetoacetic Acid	C	C	A		A
Acetone	D	B	A	A	A
Acetone Cyanohydrin	C	B	A	A	
Acetonitrile	A	B	A	A	C
Acetophenetidine	A		A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Acetophenone	D	C	A	B	
Acetotoluidide	A		A		
Acetyl Acetone	D	A	A	A	
Acetyl Bromide	A		A	D	
Acetyl Chloride	A	A	A	D	A
Acetylene	A	A	A	A	A
Acetylene Tetra-bromide	A	A	A		
Acetylene Tetra-chloride	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	
Adipic Acid		A	B	B	
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		



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Aerocene 50 (50% Hydrazine 50% UDMH)	D	C	B		
Air, Below 200°F	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	
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	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		
Alkylnaphthalene Sulfonic Acid	A		A		
Allyl Chloride	A		A	C	
Allylidene Diacetate	C		B		
Alpha Picoline	C		A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Aluminum Acetate	D	C	A	A	
Aluminum Bromide	A	A	A	A	
Aluminum Chlorate	C	A	A	A	
Aluminum Chloride	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	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	
Aluminum Sodium Sulfate	C	A	A		
Aluminum Sulfate	A	A	A	A	B
Alums-NH3 -Cr -K	D	A	A		
Ambrex 33 (Mobil)	A	A	A		
Ambrex 830 (Mobil)	A	A	A		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Amines-Mixed	D	C	A	C	A
Aminoanthraquinone			A		
Aminoazobenzene			A	A	
Aminobenzene Sulfonic Acid			A		
Aminobenzoic Acid			A		
Aminopyridine			A		
Aminosalicylic Acid			A		
Ammonia (Anhydrous)	D	B	A		A
Ammonia and Lithium Metal in Solution	D				
Ammonia, Gas, Cold	D		A		
Ammonia, Gas, Hot	D		A		
Ammonia, Liquid (Anhydrous)	D				A
Ammonium Acetate	C	C	A	A	
Ammonium Arsenate	C		A		
Ammonium Benzoate	C		A		
Ammonium Bicarbonate	C	C	A		
Ammonium Bisulfite	C		A		
Ammonium Bromide	A		A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Ammonium Carbamate	C		A		
Ammonium Carbonate	A		A	A	A
Ammonium Chloride, 2N	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	A
Ammonium Hydroxide, Concentrated	D	A	B	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
Ammonium Nitrite		A	A		A

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Ammonium Oxalate	C		A		A
Ammonium Perchlorate	C		A		
Ammonium Perchloride			A		
Ammonium Persulfate 10%		A	A	A	A
Ammonium Persulfate Solution		A	A		
Ammonium Phosphate	D	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	
Ammonium Sulfamate	C	C	A		
Ammonium Sulfate	D	A	A	A	B
Ammonium Sulfate Nitrate	D		A		
Ammonium Sulfide	D	A	A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	A
Amyl Alcohol	B	A	A	A	A
Amyl Borate	A	A	A		
Amyl Butyrate	A	A	A		
Amyl Chloride	A	A	A	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		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
ANG-25 (Di-ester Base) (TG749)	A	A			
ANG-25 (Glyceral Ester)	A	A			
Aniline	C	A	A	A	A
Aniline Dyes	B	A	A	A	
Aniline Hydrochloride	B	A	A		
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				
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		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
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		
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		



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Asphalt	A	A	A		A
ASTM Oil, No. 1	A	A	A	C	
ASTM Oil, No. 2	A	A	A	D	
ASTM Oil, No. 3	A	A	A	D	
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

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
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		
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	
Beet Sugar Liquids	A	A	A	A	A
Beet Sugar Liquors	A	A	A	A	
Benzaldehyde	D	C	B	B	A
Benzaldehyde Disulfonic Acid			B		
Benzamide	A	A	A		
Benzanthrone	A	A	A		
Benzene	A	A	A	D	A
Benzene Hexachloride		A	A		
Benzenesulfonic Acid 10%	A	A	B		
Benzidine	A	A	A		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Benzidine 3 Sul-fonic 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	A
Benzoin	A	A	A	D	
Benzonitrile	C	B	A		
Benzophenone	A	A	A		
Benzoquinone	A	A	A		
Benzotrichloride	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		
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		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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 Oxide	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		
Bleach Solutions	A		B		
Borax	A		A		A
Borax Solutions	A	A	A		
Bordeaux Mixture	A	A	A		
Boric Acid	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		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
Bromine Penta-fluoride Factory	D	C	B		
Bromine Tri-fluoride Factory	D	C	B		
Bromine Water	A		B		
Bromobenzene	A	A	A		
Bromobenzene Cyanide	C		A		
Bromochlorotri-fluoroethane (Halothane)	A	A	A		
Bromoform	A		A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		A
Butane	A	A	A	A	A
Butane, 2, 2-Dimethyl	A		A		
Butane, 2, 3-Dimethyl	A		A		
Butanedial	C	A	B		
Butanol (Butyl Alcohol)	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		C
Butyl Acetyl Ricinoleate	A		A		
Butyl Acrylate	D	C	A		
Butyl Alcohol	A	A	A		
Butyl Alcohol (Secondary)	A	A	A		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		
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

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Butyraldehyde	D		B		
Butyric Acid	B		A		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
Calcium Chlorate	C	A	A		A
Calcium Chloride	A	A	A	A	D
Calcium Chromate	C		A		
Calcium Cyanamide			A		
Calcium Cyanide		A	A		



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Calcium Fluoride	A		A		
Calcium Gluconate	C		A		
Calcium Hydride	A		A		
Calcium Hydrosulfide	C		A		
Calcium Hydroxide	A	A	A	A	A
Calcium Hypochlorite	A	A	A	A	C
Calcium Hypophosphite	C		A		
Calcium Lactate	C		A		
Calcium Naphthenate			A		
Calcium Nitrate	A	A	A	A	
Calcium Oxalate	C		A		
Calcium Oxide	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	
Calcium Silicate	A	A	A		
Calcium Stearate	A	A	A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Calcium Sulfamate	A		A		
Calcium Sulfate	C	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		
Carbon Dioxide	A	A	A		A
Carbon Dioxide (Explosive Decompression Use)	A	A	A		A

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Carbon Disulfide	A	A	A	D	A
Carbon Fluorides	A		A		
Carbon Monoxide	A	A	A	A	A
Carbon Tetrabromide			A		
Carbon Tetrachloride	A	A	A	D	B
Carbon Tetrafluoride	A		B		
Carbonic Acid	A	A	A	A	B
Casein	C	A	A		
Castor Oil	A	A	A	C	
Caustic Lime	C	A	A		
Caustic Potash	C	A	A		
Caustic Soda (Sodium Hydroxide)	C	B	A		
Cellosolve	D	C	A	C	
Cellosolve, Acetate	D	C	A	C	
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			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
Chlorine (Plasma)		A	B		
Chlorine (Wet)		A	B		A
Chlorine Dioxide	A	A	A		
Chlorine Dioxide, 8% Cl as NaClO <sub>2</sub> in solution	A	A	B		
Chlorine Trifluoride	D	C	B		
Chlorine Water	A	A	A		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	
Chloroacetone	D	B	A		
Chloroacetyl Chloride			A		
Chloroamino Benzoic Acid	C		A		
Chloroaniline	C		A		
Chlorobenzaldehyde	C	C	A		
Chlorobenzene	A	A	B	D	A
Chlorobenzene (Mono)	A		A		
Chlorobenzene Chloride	A		A		
Chlorobenzene Tri-fluoride	A		A		
Chlorobenzo-chloride	A		A		
Chlorobenzotri-fluoride	A		A		
Chlorobromo Methane	A	A	A		
Chlorobromopropane	A	A	A		
Chlorobutadiene	A	A	A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Chlorobutane (Butyl Chloride)	A	A	A		
Chlorododecane	A	A	A		
Chloroethane	A	A	A		
Chloroethane Sul-fonic Acid	C		A		
Chloroethylbenzene	A	A	A		
Chloroform	A	A	A	C	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	
Chlorotoluene	A	A	A		
Chlorotoluene Sul-fonic 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		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Chrome Plating Solutions	A	A	A		
Chromic Acid	A	A	A	A	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	A
City Service #65 #120 #250	A				
City Service Koolmoter-AP Gear Oil 140-EP Lube	A				
City Service Pace-maker #2	A				
Clorox	A	A	A		
Coal Tar	A	A	A		
Cobalt Chloride	A	A	A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	
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		



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Copper Salts	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	
Cottonseed Oil	A	A	A		
Creosote, Coal Tar	A	A	A		
Creosote, Wood	A	A	A		
Cresol (Methyl Phenol)	A	A	A		
Cresols	B	A	A	D	A
Cresylic Acid	A	A	A	B	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			
Cutting Oil	A	A	A		
Cyanamide			A		
Cyanides			A		
Cyanogen Chloride			B		
Cyanogen Gas			A		
Cyanohydrin			A		
Cyanuric Chloride			A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Cyclohexane	A	A	A		A
Cyclohexanol	A	A	A		
Cyclohexanone	D	A	A	D	
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
Developing Fluids (Photo)	A	A	A		
Dexron	A	A	A		
Dextrin	A	A	A		
Dextro Lactic Acid	C		A		
Dextron	A				
Dextrose	C	A	A		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
DI Water	B	A	B		
Diacetone	D	B	A		
Diacetone Alcohol	D	B	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 Methylene-dithio Glycolate	A		A		
Dibutyl Phthalate	C	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		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		
Dichlorophenoxy-acetic 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
Di-ester Lubricant MIL-L-7808	A	A	A		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		
Difluorodibromomethane			A		
Difluoroethane	A	D	A		
Difluoromono-chloroethane	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				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		
Dimethyl Formamide (DMF)	D	A	A	B	
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		A		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Dinitrogen Tetroxide			B		
Dinitrotoluene (DNT)	D		A		
Diethyl Phthalate	B	A	A	A	
Diethyl Sebacate	B	A	A		
Diethylamine	A		A		
Dioxane	D	C	A	D	
Dioxolane	D	C	A		
Dipentene	A	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			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	
Dry Cleaning Fluids	A	A	A		
DTE 20 Series, Mobil	A	A	A		
DTE named series, Mobil, light-heavy	A	A	A		



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
Ethanol Amine	D	C	A		A
Ethers	C	C	A	C	A
Ethoxyethyl Acetate (EGMEEA)	C				A
Ethyl Acetate-Organic Ester	D	B	A	B	
Ethyl Acetoacetate	D	C	A		
Ethyl Acrylate	D	C	A		
Ethyl Alcohol	C	A	A	A	
Ethyl Ammonium Dichloride					
Ethyl Benzene	A	A	A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Ethyl Benzoate	A	A	A	D	
Ethyl Bromide	A	A	A	D	
Ethyl Cellosolve	D	B	A		
Ethyl Cellulose	D	C	A		
Ethyl Chloride	A	A	A	C	A
Ethyl Chlorocarbonate	A	A	A		
Ethyl Chloroformate	D		A		
Ethyl Ether	D	C	A	C	
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				
Ethylcyclopentane	A	A			

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Ethylene	B	A	A		
Ethylene Chloride	B	A	A		A
Ethylene Chlorohydrin	A	A	A	A	
Ethylene Cyanohydrin	A				
Ethylene Diamine	D	A	B		
Ethylene Dibromide	A	A	A		
Ethylene Dichloride	A	A	A	C	A
Ethylene Glycol	A	A	A	A	A
Ethylene Hydrochloride	A				
Ethylene Oxide	D	D	A	A	A
Ethylene Oxide, (12%) and Freon 12 (80%)	D				
Ethylene Trichloride	A	A	A		
Ethyleneimine					
Ethylmorpholine Stannous Octotatate (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		
FC-43 Heptacosofluorotri-butylamine	A				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
FC75 & FC77 (Fluorocarbon)	B				
Ferric Acetate	C	C			
Ferric Ammonium Sulfate	C				
Ferric Chloride	A	A	A	A	
Ferric Ferrocyanide	C				
Ferric Hydroxide	C	A	A		
Ferric Nitrate	A	A	A	A	A
Ferric Persulfate	A				
Ferric Sulfate	A	A	A		A
Ferrous Ammonium Citrate	C				
Ferrous Ammonium Sulfate	C	A			
Ferrous Carbonate	C				
Ferrous Chloride		A	A		D
Ferrous Iodide	C				
Ferrous Sulfate	C	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					
Fluorocarbon Oils					

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Fluoroform (Tri-fluoromethane)					
Fluorolube	B		B		
Fluorophosphoric Acid					
Fluorosilicic Acid	B	A	A		B
Fluorosulfonic Acid					
Formaldehyde	D	C	A	D	A
Formamide	C		A		
Formic Acid	D	C	B		B
Freon, 11	B	B	B	A	A
Freon, 112 (Tetra-chlorodifluoro-ethane)	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	D
Freon, 12 and ASTM Oil #2 (50/50 Mixture)	A	B			
Freon, 12 and Suniso 4G (50/50 Mixture)	A	B			
Freon, 123 (Dichlorotrifluoro-ethane)					
Freon, 124 (Chlorotetrafluoro-ethane)					

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	A
Freon, 22 and ASTM Oil #2 (50/50 Mixture)	B	D	B		
Freon, 23 (Fluorofom)					
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				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Freon, PCA (R113)	B		C		
Freon, TA	D	D	C		
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
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	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	A
Gasoline	A	A	A		A

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Gelatin	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
Glue		A			A
Glutamic Acid	C	B			
Glycerine (Glycerol)	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	
Glycols	A	A	A		
Glyoxylic Acid	C				
Grease Petroleum Base	A		A		A
Green Sulfate Liquor	A	A	B		
Gulf Endurance Oils	A	A			



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	A
Heptanoic Acid	A	A			
Hexachloroacetone	C	B			
Hexachlorobutadiene	A		A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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				
Hexamethylene-tetramine	C	C			
Hexane or n-Hexane	A	A	A	D	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			

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
HiLo MS #1	D				
Houghto-Safe 1010 phosphate ester	A	A			
Houghto-Safe 1055 phosphate ester	A	A			
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	A
Hydrazine (Anhydrous)	D	C	B		
Hydrazine Dihydrochloride	C				
Hydrazine Hydrate	C	C			
Hydriodic Acid	A	A			
Hydroabietyl Alcohol					
Hydrobromic Acid	A	A	A		D

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Hydrobromic Acid 40%	A				D
Hydrocarbons, Saturated	A				
Hydrochloric Acid (cold) 37%	A	A	A	A	A
Hydrochloric Acid (hot) 37%	A	A	A	A	D
Hydrochloric Acid, 3 Molar to 158°F	A	A	A	A	D
Hydrochloric Acid, Concentrated Room Temp.	A	A	A	A	D
Hydrochloric Acid, Concentrated to 158°F	A	A	A	A	D
Hydrocyanic Acid	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	D
Hydrofluoric Acid (conc.) Cold		C		D	D
Hydrofluoric Acid (conc.) Hot 4 3	C	C		D	D
Hydrofluorosilicic Acid	A	A	A		D
Hydrogen Bromide (Anhydrous)			A		
Hydrogen Chloride (Anhydrous)			A		

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Hydrogen Chloride gas	A				
Hydrogen Cyanide		A			
Hydrogen Fluoride			A		
Hydrogen Fluoride (Anhydrous)	D	C	A		
Hydrogen Gas, Cold	A		A	A	A
Hydrogen Gas, Hot	A				
Hydrogen Iodide (Anhydrous)					
Hydrogen Peroxide	A	A	A	A	C
Hydrogen Peroxide 90%	A	A	A		B
Hydrogen Selenide					
Hydrogen Sulfide, Dry, Cold	D	C	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		
Hydrooxycitronellal	A				
Hydroquinol	A				
Hydroquinone	B	A	B		
Hydroxyacetic Acid	C	B	A		
Hydyne	D	D			
Hyjet	D	C			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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			C
Iodine Penta-fluoride	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
Isobutyl Chloride	A	A	A		
Isobutyl Ether	D	C			
Isobutyl Methyl Ketone	C	C			
Isobutyl n-Butyrate	A				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
Isopentane	A	A	A		
Isophorone (Ketone)	D	A	A		
Isopropanol	A	A	A		
Isopropyl Acetate	D	B	A	B	A
Isopropyl Alcohol	A	A	A	C	A
Isopropyl Chloride	A	A	A		
Isopropyl Ether	D	C	A	C	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			
JP-9 (MIL-F-81912)	A	A			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
Ketones				D	A
Keystone #87HX-Grease	A				
Lacquer Solvents	D	B	A		A
Lacquers	D	B	A		A
Lactams-Amino Acids	D	A	A		
Lactic Acid, Cold	A	A	A	A	A
Lactic Acid, Hot	A	A	A	B	A
Lactones (Cyclic Esters)	D				
Lard Animal Fat	A	A	A	C	A
Lauric Acid	A	A			A
Lavender Oil	A	A			A
LB 135	A				
Lead (Molten)					
Lead Acetate	D	B	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			



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	B
Linseed Oil	A	A	A	C	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		A
Lithium Hypochlorite	C				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Lithium Nitrate	C				
Lithium Nitrite	C				
Lithium Perchlorate	C				
Lithium Salicylate	C				
Lithopone	C		A		
Lubricating Oils (Crude & Refined)	A	A	A		A
Lubricating Oils (Synthetic base)	A	A	A		A
Lubricating Oils, Di-ester	A	A			A
Lubricating Oils, petroleum base	A	A			A
Lubricating Oils, SAE 10, 20, 30, 40, 50	A	A			A
Lye Solutions	B	A	A		
Magnesium Chloride	A	A	A	A	C
Magnesium Hydroxide	A	A	A	A	A
Magnesium Salts	A	A	A	A	
Magnesium Sulfite and Sulfate	A	A	A	A	A
Magnesium Trisilicate	X				
Malathion	A	A	A		
Maleic Acid	A	A	A	C	A
Maleic Anhydride	D	B	A		
Maleic Hydrazide	C				
Malic Acid	A	A	A		A

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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				
Manganese Linoleate	C				
Manganese Naphthenate	C				
Manganese Phosphate	C				
Manganese Salts		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				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Mercaptan	A	B			
Mercaptobenzo-thiazole (MBT)	A				
Mercuric Acetate	C	B			
Mercuric Chloride	A	A	A		C
Mercuric Cyanide	C	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
Mercury Chloride	C			A	
Mercury Fulmi-nate	C				
Mercury Salts	C			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
Methanol	D	A		A	A
Methoxychlor					

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Methoxyethanol (DGMMA)	C				
Methyl Abietate	A	A			
Methyl Acetate	D	B	A	B	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	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	A
Methyl Chloroacetate	C	B			
Methyl Chloroform	A	A			A
Methyl Chloroformate	A	A	A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	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	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	
Methyl Oleate	A	A	A		
Methyl Pentadiene	A				
Methyl Phenylacetate	A	B			

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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				
Methylene Bromide	A		A		
Methylene Chloride	B		A	C	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			

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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			



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
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			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
Mixed Acids	C				
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			

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Mobil Delvac 1100, 1110, 1120, 1130	A	A			
Mobil HF	A	A			
Mobil Nivac 20, 30	A	A			
Mobil SHC 500 Series	A	A			
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			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Molybdenum Oxide	C				
Molybdenum Tri-oxide	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	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				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Monomethylamine	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
Mustard Gas		A	A		A
Myristic Acid	A	A			
Naphthalene	A	A	A	D	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
Natural Gas	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

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Nickel Chloride	A	A	A	A	A
Nickel Cyanide	C				
Nickel Nitrate	C	A	A	A	A
Nickel Salts	A		A	A	
Nickel Sulfate	A	A	A	A	B
Nicotinamide (Nicotinamide)	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
Nitric Acid (50 - 100%) 4:3	C	A			B
Nitric Acid 3 Molar to 158°F	C	A	A		
Nitric Acid Concentrated Room Temp.	B	A	A		B
Nitric Acid Concentrated to 158°F	D	A			C
Nitroaniline	C				
Nitrobenzene	B	A	A	D	B
Nitrobenzoic Acid	C				
Nitrocellulose	C				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Nitrochlorobenzene	C				
Nitrochloroform	C				
Nitrodiethylaniline	C				
Nitrodiphenyl Ether					
Nitroethane	D	C	A		
Nitrofluorobenzene	C				
Nitrogen	A	A	A		A
Nitrogen Oxides	C	C			
Nitrogen Tetroxide (N <sub>2</sub> O <sub>4</sub> )	D	C	A		
Nitrogen Trifluoride					
Nitroglycerine	C				A
Nitroglycerol	C				
Nitroisopropylbenzene	C				
Nitromethane	D		A	D	
Nitrophenol	C	C			
Nitropropane	D	C	A		
Nitrosyl Chloride					
Nitrosylsulfuric Acid					
Nitrothiophene	C				
Nitrotoluene	C	B			
Nitrous Acid	C		A	A	B
Nitrous Oxide	A	B			A
Nonane	A	A			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Noryl GE Phenolic					
Nyvac 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
Oleum (Fuming Sulfuric Acid)	A	A	A	A	A
Oleum Spirits	A	A			
Oleyl Alcohol	A	A			
Olive Oil	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				



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Ortho-Dichlorobenzene	A			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	B
Oxygen, 200°-300°F (Evaluate for specific applications)	B	A	A		A
Oxygen, 300°-400°F (Evaluate for specific applications)	B	A	A		A
Oxygen, Cold (Evaluate for specific applications)	A	A		A	A
Oxygen, Liquid	D	D	D		A
Ozonated Deionized Water	C				
Ozone	A	A	A	A	A
Paint Thinner, Duco	B	A	A	B	
Palmitic Acid	A	A	A	C	A
Para-Aminobenzoic Acid	C				
Para-Bromobenzylphenyl Ether					
Para-Chlorophenol	C				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Paracymene	A				
Para-Dichlorobenzene	A		A		
Paraffins	A	A	A	D	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				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
Perchloroethylene	A	A	A	C	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		
Petroleum Oil, Below 250°F	A	A	A		
Petroleum Oil, Crude	A	A	A		
Phenol	A	A	A	A	A
Phenol, 70% / 30% H2O	A	A	A	A	A
Phenol, 85% / 15% H2O	A	A	A	A	A
Phenolic Sulfonate	C				
Phenolsulfonic Acid	C	A	A		
Phenylacetamide	A				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	
Phosphoric Acid Concentrated Room Temp	A	A	A	B	C
Phosphoric Acid Concentrated to 158°F	A	A	A	B	C
Phosphoric Acid, 20%		A	A	B	A
Phosphoric Acid, 45%		A	A	B	B
Phosphorus (Molten)					

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Phosphorus Oxychloride			A		
Phosphorus Trichloride	A	A	A		
Phosphorus Trichloride Acid	A		A		A
Phthalic Acid	C	A		A	A
Phthalic Anhydride	C	C	A	A	B
Pickling Solution 3 2	B	A			
Picric Acid (aq)	A	A	A	D	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
Plating Solutions Chrome	A	A	A		A
Plating Solutions Others	A	A			A
Pneumatic Service	A		A		
Polyethylene Glycol	C	A			
Polyglycerol	C				
Polyglycol	C				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
Potassium Chlorate	C	A	A		A
Potassium Chloride	A	A	A		A
Potassium Chromates	C	A	A		B
Potassium Citrate	C				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Potassium Cupro Cyanide	A				A
Potassium Cyanate	C		A		B
Potassium Cyanide	A	A			
Potassium Dichromate	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		B
Potassium Hypochlorite	C	B	A		
Potassium Iodate	C		A		
Potassium Iodide	C	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		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Potassium Perfluoro Acetate					
Potassium Permanganate	C	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		
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



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Prestone Anti-freeze	A	A			
PRL-High Temp. Hydr. Oil	A	A			
Producer Gas	A	A	A		
Propane	A	A	A	A	A
Propanol			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
Propylene Imine	A				
Propylene Oxide	D	D	A	A	A
Pydraul 90e	A	A			
Pydraul, 10E	D	A			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	B
Pyridine Oil	D	C			
Pyridine Sulfate	C				
Pyridine Sulfonic Acid	C				
Pyrogallol (Pyrogallic 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				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	A
Santo Safe 300	A	A			
Sea (Salt) Water	A	A	A		C

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Sebacic Acid	C	A			
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 Irus 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					

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Silicate Esters	A	A	A		
Silicon Fluoride					
Silicon Tetra-chloride			B		
Silicon Tetra-fluoride					
Silicone Greases	A	A	A		
Silicone Oils	A	A	A	C	A
Silver Bromide	C		A		
Silver Chloride	C		A		C
Silver Cyanide	C	A	A		A
Silver Nitrate	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	
Skydrol 7000	B	A	A		
Skydrol LD-4	D	C			
Soap Solutions	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

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	
Sodium Bicarbonate (Baking Soda)	A	A	A	A	A
Sodium Bichromate	C		A		A
Sodium Bifluoride	C				
Sodium Bisulfate or Bisulfite	A	A	A		A
Sodium Bisulfide	C				
Sodium Bitartrate	C				
Sodium Borate	A	A	A		A
Sodium Bromate	C		A		
Sodium Bromide	C	A	A		A
Sodium Carbonate (Soda Ash)	A	A	A	A	B
Sodium Chlorate	C	A	A	A	A

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Sodium Chloride	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
Sodium Diacetate	C	B			
Sodium Diphenyl Sulfonate	C				
Sodium Diphosphate	C				
Sodium Disilicate	C				
Sodium Ethylate	C		A		
Sodium Ferricyanide	C	A	A		A
Sodium Fluoride	C	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		
Sodium Hydroxide, 3 Molar	B	A	A	A	B

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Sodium Hypochlorite	A	A	A	A	A
Sodium Hypophosphate	C				
Sodium Hypophosphite	C				
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
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				



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	
Sodium Sesquisilicate	X	A			
Sodium Silicate	A	A	A		B
Sodium Silicofluoride					
Sodium Stannate	C				
Sodium Sulfate	A	A	A	A	A
Sodium Sulfide and Sulfite	A	A	A	A	B
Sodium Sulfo-cyanide	C				
Sodium Tartrate	C		A		
Sodium Tetraborate	C		A		A
Sodium Tetraphosphate	C				
Sodium Tetrasulfide	C				
Sodium Thioarsenate	C				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		D
Stannic Chloride, 50%	A		A		
Stannic Tetrachloride	C				
Stannous Bisulfate	C				
Stannous Bromide	C				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		A
Steam, 400° - 500°F	D	C	A		A
Steam, Above 500°F		C	B		A
Stearic Acid		A	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
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			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Sulfonated Oils	A				
Sulfonic Acid	C				
Sulfonyl Chloride	C				
Sulfur	A		A		A
Sulfur (Molten)	A	A			
Sulfur Chloride	A	A	A	D	D
Sulfur Dioxide, Dry	D	A	A		A
Sulfur Dioxide, Liquidified under pressure	D	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		C
Sulfuric Acid (20% Oleum)	C	A	A		C
Sulfuric Acid, 3 Molar to 158°F	A	A	A		D
Sulfuric Acid, Concentrated Room Temp	A	A	A		D
Sulfuric Acid, Concentrated to 158°F	A	A	A		D
Sulfuric Chlorohydrin (Chlorosulfonic Acid)	C	B			
Sulfurous Acid	A	B	A	A	B

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		A
Tar, bituminous	A	A	A		A
Tartaric Acid	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		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	A
Tetralin	A	A	A		
Tetramethyl Ammonium Hydroxide	C				
Tetramethylcyclotetrasiloxane (TMCTS)					
Tetramethyldihydropyridine	A				
Tetramethyldihydropyridine	A				
Tetraphosphogluconate	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			

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	
Thiophene (Thiofuran)	C	C	A		
Thiophosphoryl Chloride	C				
Thiourea	C				
Thorium Nitrate	C				

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Tidewater Multi-gear, 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		A
Toluene Bisodium Sulfite					
Toluene Diisocyanate (TDI)	D	C			
Toluene Sulfonyl Chloride	A				
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				



List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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	B
Trichloroacetyl Chloride	A				
Trichlorobenzene	A	A	A		
Trichloroethane	A	A	A	C	A
Trichloroethanolamine	C				
Trichloroethylene	A	A	A	C	A
Trichloromethane	A				
Trichloronitromethane (Chloropicrin)	C				
Trichlorophenylsilane					
Trichloropropane	A	A	A	C	A
Trichlorosilane	A				
Tricresyl Phosphate	B	A		A	A
Triethanol Amine	D	C		C	A
Triethyl Phosphate	A				
Triethylaluminum		A			
Triethylborane		A	A		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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		
Trinitroloeuene (TNT)	B	A	A		
Trioctyl Phosphate	B	A	A		
Triphenylphosphite	C		A		
Tripoly Phosphate	B		A		
Tripotassium Phosphate	C				
Trisodium Phosphate	C				A
Tritium					
Tung Oil (China Wood Oil)	A	A			
Tungsten Hexafluoride					

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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
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			

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
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 (Polyalkalene 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	
Valeraldehyde	C	C			
Valeric Acid	C	A	A		
Vanadium Oxide	A				

List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Vanadium Pent-oxide	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	A
Vinyl Acetate	C	C	A	B	
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
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		

## List of chemical resistance

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Xenon	A	A	A		
Xylene	A	A	A		A
Xylidenes-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	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	
Zinc Silicofluoride					
Zinc Stearate	C	A			
Zinc Sulfate	A	A	A		A
Zinc Sulfide	C	B			

Fluid	FKM / FPM / Viton	Viton® Extreme ETP-S	FFKM / Kalrez®	TPE (LEZ-SAN Santoprene®)	Stainless Steel AISI 316L
Zirconium Nitrate	A	A			

### 3.4 Table 2

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Acetaldehyde	B	D	A	A
Acetate LMW	—	—	A	A
Acetic acid <5%	A	—	A	B
Acetic acid >5%	A	B	A	B
Acetic anhydride	C	D	A	B
Acetone	C	D	A	A
Acetonitrile	—	D	A	A
Acetyl bromide	—	—	A	—
Acetyl chloride	C	A	A	A
Air	A	A	A*	A
Aliphatic hydrocarbons	—	—	—	B
Aluminum chloride	B	A	A	D
Aluminum sulfate	A	A	A	B
Alums	A	A	A	—
Ammonia, gas / liquid	C	D	A	B
Ammonium acetate	—	D	A	B
Ammonium carbonate	C	A	A	B
Ammonium chloride	C	A	A	C
Ammonium hydroxide	A	B	A	A
Ammonium nitrate	C	A	A	A
Ammonium phosphate	A	A	A	B

## List of chemical resistance

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Ammonium sulfate	A	A	A	B
Amyl acetate	D	D	A	A
Amyl alcohol	D	A	A	A
Amyl chloride	D	A	A	A
Aniline	D	B	A	A
Aniline hydrochloride	D	B	A	D
Aqua regia (80 % HCl, 20 % H)	D	B	A	D
Aromatic hydrocarbons	—	A	—	B
Arsenic salts	—	D	—	—
Barium salts	A	A	A	B
Benzaldehyde	B	D	A	B
Benzenesulfonic acid	D	A	A	B
Bleaching liquors	B	A	A	—
Boric acid	A	A	A	B
Bromine	D	A	A	D
Butane	D	A	A	A
Butanol (butyl alcohol)	B	A	A	A
Butyl acetate	D	D	A	B
Butyric acid	D	B	A	B
Calcium oxide	A	A	A	A
Calcium salts	B	A	A	B
Carbon bisulfide	D	—	A	A
Carbon dioxide	B	A	A*	A
Carbon tetrachloride	D	A	A	B
Chlorine, dry	D	A	A*	A



**List of chemical resistance**

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Chlorine, wet	D	B	A	C
Chloroacetic acid	—	D	A	B
Chlorobenzene	D	A	B	A
Chlorobromomethane	D	A	A	—
Chloroform	D	A	A	A
Chlorosulfonic acid	D	D	A	D
Chromic acid, 30 %	C	A	A	B
Chromium salts	—	—	—	—
Copper salts	A	A	A	B
Cresol	D	A	A	A
Cyclohexane	D	A	A	A
Cyclohexanone	D	D	A	A
Diacetone alcohol	B	D	A	B
Dimethyl formamide	B	D	A	A
Essential oils	C	—	—	—
Ethanol (ethyl alcohol)	A	A	A	A
Ether	D	D	A	A
Ethyl acetate	B	D	A	B
Ethyl bromide	D	A	A	—
Ethyl chloride	D	A	A	A
Ethylamine	C	D	—	—
Ethylene chlorohydrin	C	A	A	B
Ethylene dichloride	D	A	A	B
Ethylene glycol	A	A	A	B
Ethylene oxide	D	D	A	B

## List of chemical resistance

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Fatty acids	C	A	A	B
Ferric chloride	B	A	A	D
Ferric sulfate	B	A	A	B
Ferrous chloride	C	A	A	D
Ferrous sulfate	C	A	A	B
Fluoboric acid	A	—	A	B
Fluoroborate salts	—	—	—	—
Fluosilicic acid	D	A	A	C
Formaldehyde	B	D	A	C
Formic acid, 25 %	B	D	A	B
Freon® TMS	—	—	A	—
Gasoline, high-aromatic	D	A	B	A
Gasoline, nonaromatic	D	A	A	—
Glucose	A	A	A	A
Glue, P.V.A.	A	A	A	A
Glycerin	A	A	A	A
Hydriodic acid	—	A	—	—
Hydrobromic acid, 30 %	D	A	A	D
Hydrochloric acid (dil)	D	A	A	D
Hydrochloric acid (med)	D	A	A	D
Hydrochloric acid (conc)	D	A	A	D
Hydrocyanic acid	C	A	A	B
Hydrocyanic acid, gas, 10 %	C	A	A	—

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Hydrofluoric acid, 50 %	D	D	A	D
Hydrofluoric acid, 75 %	D	D	A	D
Hydrogen peroxide (dil)	A	A	A	B
Hydrogen peroxide, 90 %	B	A	A	B
Hypochlorous acid	D	A	A	—
Iodine solutions	C	A	A	D
Iodoform	—	C	—	A
Kerosene	D	A	A	A
Ketones	—	—	A	A
Lacquer solvents	D	D	A	A
Lactic acid, 3-10%	A	A	A	B
Lead acetate	D	D	A	B
Linseed oil	A	A	A	A
Lithium hydroxide	D	C	A	B
Magnesium chloride	A	A	A	B
Magnesium sulfate	A	A	A	B
Malic acid	B	A	A	A
Manganese salts	B	A	A	D
Mercury salts	—	A	A	B
Methane	D	A	A*	A
Methanol (methyl alcohol)	A	B	A	A
Methyl chloride	D	B	A	A
Methyl ethyl ketone (MEK)	D	D	A	A

## List of chemical resistance

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Mixed acid (40% H2SO4, 15 % HNO3)	—	—	A	B
Molybdenum disulfide	—	A	—	—
Monoethanolamine	B	D	A	A
N-Methyl-2-Pyrrolidone (NMP) <sup>1</sup>	A	C	A	—
Naphtha	D	A	B	A
Natural gas	A	A	A*	A
Nickel salts	A	A	A	B
Nitric acid (dil)	B	B	A	A
Nitric acid (med)	C	A	A	A
Nitric acid (conc)	D	A	A	A
Nitrobenzene	D	B	A	B
Nitrogen oxides	D	D	A	—
Nitrous acid	—	—	A	B
Oils, animal	B	A	A	A
Oils, mineral	B	A	A	A
Oils, vegetable	B	A	A	A
Oleic acid	D	B	A	B
Oxalic acid, cold	B	A	A	B
Oxygen, gas	B	B	A*	A
Palmitic acid, 100 % in ether	D	A	A	B
Perchloric acid	D	A	A	C
Perchloroethylene	D	A	A	B
Phenol (carbolic acid)	D	A	A	B
Phosphoric acid, 50 %	C	A	A	A

**List of chemical resistance**

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Phthalic acid	B	B	A	B
Plating solutions	D	A	A	—
Polyglycol	A	A	—	—
Potassium carbonate	—	A	—	B
Potassium chlorate	B	A	A	B
Potassium hydroxide (med)	B	D	A	B
Potassium hydroxide (conc)	C	D	A	B
Potassium iodide	—	A	A	A
Propanol (propyl alcohol)	A	A	A	A
Pyridine	D	D	A	A
Silicone fluids	C	A	A	A
Silicone oils	C	A	A	A
Silver nitrate	A	A	A	B
Soap solutions	A	A	A	A
Sodium bicarbonate	A	A	A	B
Sodium bisulfate	—	A	A	D
Sodium bisulfite	A	A	A	B
Sodium borate	A	A	A	B
Sodium carbonate	A	A	A	A
Sodium chlorate	C	A	A	B
Sodium chloride	A	A	A	C
Sodium ferrocyanide	—	A	A	B
Sodium hydrosulfite	—	—	A	—
Sodium hydroxide (dil)	A	A	A	A

## List of chemical resistance

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Sodium hydroxide, 25 %	B	A	A	B
Sodium hydroxide (conc)	—	A	A	C
Sodium hypochlorite, <5%	B	A	A	A
Sodium hypochlorite, >5%	B	A	A	C
Sodium nitrate	D	A	A	B
Sodium silicate	A	A	A	B
Sodium sulfide	A	A	A	C
Sodium sulfite	A	A	A	A
Steam, up to 40 psi	A	B	A*	A
Stearic acid	B	A	A	B
Styrene	D	A	A	A
Sulfuric acid (dil)	D	A	A	D
Sulfuric acid (med)	D	A	A	D
Sulfuric acid (conc)	D	A	A	C
Sulfurous acid	D	B	A	B
Tannic acid	B	A	A	B
Tanning liquors	—	—	A	A
Tartaric acid	A	A	A	C
Tin salts	B	—	A	—
Toluene (toluol)	D	A	A	A
Trichloroacetic acid	D	C	A	D
Trichloroethylene	D	A	A	B
Trisodium phosphate	—	A	A	B

Fluid Source: holland® APPLIED TECHNOLOGIES www.hollandapt.com	Silicone (peroxide/ platinum- cured)	Viton®	PTFE (Teflon)	Stainless steel
Turpentine	D	A	A	A
Urea	B	—	A	A
Uric acid	—	—	A	B
Water, fresh	B	A	A	A
Water, salt	A	A	A	B
Xylene	D	A	A	A
Zinc chloride	A	A	A	D

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

### 3.5 Table 3

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Abietic acid				A
Acetaldehyde (ethanal), 40%	A	A	A	
Acetamide	A	A	A	C
Acetamide, 50%	A			
Acetic acid (glacial acetic acid), concentrated	C	A	A	C
Acetic acid allyl ester (allyl acetate)		A	A	
Acetic acid anhydride (acetic anhydride)		A	A	C
Acetic acid butyl ester (butyl acetate)	A	A	A	C
Acetic acid chloride (acetyl chloride)		A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Acetic acid ethyl ester (ethyl acetate)	C	A	A	C
Acetic acid methyl ester (methyl acetate)	C	A	A	
Acetic acid vinyl ester (vinyl acetate)		A	A	
Acetic acid, 50%	C	A	A	
Acetic acid, 10%	A	A	A	
Acetic acid, 5%	A	A	A	a
Acetic acid, 90%		A	A	
Acetic anhydride (acetic acid anhydride)		A	A	C
Acetic ester (ethyl acetate, acetic acid ethyl ester)	C	A	A	C
Acetoacetic ester			A	C
Acetone (dimethyl ketone, propanone)	C	A	A	A
Acetonitrile (methyl cyanide)		A	A	
Acetophenone	A	A	A	
Acetyl cellulose (cellulose acetate)	A	A	A	A
Acetyl chloride (acetic acid chloride)		A	A	
Acetylacetone	A	A	A	
Acetylene gas	A	A	A	C
Acetylene tetrabromide (tetrabromoethane)		A	A	
Acetylene tetrachloride (tetrachloroethane)	A	A	A	
Acetylsalicylic acid		A	A	
Acrylic acid		A	A	



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Acrylic acid ethyl ester (ethyl acrylate)	A	A	A	
Acrylonitrile		A	A	
Adipic acid	A	A	A	A
Adipic acid, aqueous	A	A	A	
Aero HFA Mobil			A	
Aero Lubriplate			A	C
Aero Safe 2300			A	
Aero Safe 2300 W			A	
Aero Shell 17 Lubricants			A	C
Aero Shell 750			A	
Aero Shell 7A Lubricants			A	C
Aero Shell Fluid 4 (41), +20 °C			A	
Aero Shell IAC			A	C
Aerozene 50 (50% Hydrazine, 50% UDMH)			A	
Aircraft engine fuels (JP)	A		A	
Alanine		A	A	
Alcohol	A	A	A	C
Alkazene (dibromoethylbenzene)			A	
Allyl acetate (acetic acid allyl ester)		A	A	
Allyl alcohol	A	A	A	A
Allyl alcohol (2-propen-1-ol)	C	A	A	
Allyl chloride (3-chloro-1-propene)		A	A	A
Almond oil			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Alum (aluminum potassium sulfate), aqueous	A	A	A	C
Aluminum acetate, aqueous	A	A	A	
Aluminum ammonium sulfate	C	A	A	
Aluminum bromide			A	A
Aluminum chloride	A	A	A	C
Aluminum fluoride	C	A	A	C
Aluminum hydroxide	A	A	A	A
Aluminum nitrate	C	A	A	C
Aluminum oxide	A	A	A	A
Aluminum phosphate, aqueous	A	A	A	A
Aluminum potassium sulfate (alum), aqueous	A	A	A	C
Aluminum potassium sulfate, diluted	C	A	A	
Aluminum potassium sulfate, saturated	C	A	A	
Aluminum sulfate	C	A	A	A
Aluminum sulfate, saturated	C	A	A	
Ambrex 33 (Mobil)			A	
Ambrex 830 (Mobil)			A	C
Amino acids	A	A	A	A
Aminoacetic acid	A	A	A	
Aminobenzene (aniline)	C	A	A	C
Ammonia solution	A	A	A	C
Ammonia, 10%	A			
Ammonia, aqueous (ammonia solution)	A	A	A	C

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Ammonia, gaseous, cold			A	A
Ammonia, gaseous, hot				A
Ammonia, liquid (anhydrous)		A	A	A
Ammonium acetate	A	A	A	
Ammonium carbonate (sal volatile)	A	A	A	
Ammonium carbonate, 50%		A	A	
Ammonium carbonate, aqueous		A	A	
Ammonium chloride (salmiac)	C	A	A	A
Ammonium chloride, 2-molar			A	
Ammonium chloride, aqueous	A	A	A	
Ammonium chloride, solid	A		A	
Ammonium dihydrogen phosphate		A	A	
Ammonium fluoride (Fluorammon)	A	A	A	A
Ammonium fluoride (Fluorammon), aqueous		A	A	
Ammonium fluoride (Fluorammon), saturated		A	A	
Ammonium glycolate		A	A	
Ammonium heptamolybdate		A	A	
Ammonium hydrogen carbonate		A	A	
Ammonium hydrogen difluoride		A	A	
Ammonium hydrogen fluoride (glass etchant)		A	A	
Ammonium hydrosulfide		A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Ammonium hydroxide	A	A	A	
Ammonium hydroxide, 5%	A	A	A	
Ammonium hydroxide, 30%	C	A	A	A
Ammonium hydroxide, aqueous		A	A	C
Ammonium hydroxide, concentrated			A	A
Ammonium iron(II) sulfate		A	A	
Ammonium iron(III) sulfate		A	A	
Ammonium metaphosphate		A	A	
Ammonium nitrate (fertilizer)	A	A	A	C
Ammonium nitrate, 10%	A	A	A	
Ammonium nitrate, saturated	A	A	A	
Ammonium nitrite		A	A	C
Ammonium oxalate		A	A	
Ammonium peroxodisulfate		A	A	
Ammonium persulfate, 10%			A	
Ammonium phosphate (fertilizer)	A	A	A	C
Ammonium salts of mineral acids	A			
Ammonium sulfate (fertilizer)	A	A	A	C
Ammonium sulfate, 10%	A	A	A	
Ammonium sulfate, saturated	A	A	A	
Ammonium sulfide		A	A	C
Ammonium sulfide, aqueous		A	A	
Ammonium thiocyanate	A	A	A	
Amyl acetate (pentyl acetate)	A	A	A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Amyl alcohol (pentanol, pentyl alcohol)	A	A	A	
Amyl borate		A	A	
Amyl chloride (pentyl chloride, 1-chloropentane)	A	A	A	
Amyl chloronaphtalene			A	
Amyl naphtalene		A	A	
AN-O-3 Grade M			A	C
AN-O-366			A	
AN-O-6			A	
AN-W-O-366b Hydraulic Fluid			A	
Anderol, L 774, +20 °C (diester)			A	
Anderol, L 826, +20 °C (diester)			A	
Anderol, L 829, +20 °C (diester)			A	
Anethole		A	A	
Ang 25 (diester-based) TG 749			A	C
Ang 25 (glycerol ester)			A	C
Aniline (aminobenzene)	C	A	A	C
Aniline chlorohydrate		A	A	C
Aniline dyes			A	
Aniline hydrochloride		A	A	
Animal fats	A	A	A	C
Animal oil			A	C
Anise		A		
Anisole (methoxybenzene, methyl phenyl ether)	C	A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Anone (cyclohexanone)	A	A	A	
Ansul ether 161 or 181			A	
Anthraquinonesulfonic acid, aqueous			A	
Antichlor (sodium thiosulfate, fixing salt)	C	A	A	A
Antiformin, aqueous			A	
Antifreezes (glycol-based)	A		A	A
Antimony chloride			A	
Antimony trichloride		A	A	
Antimony trichloride, 90%		A	A	
Antimony trichloride, aqueous		A		
Apple juice		A	A	
Aqua regia		A	A	
Argon gas	A	A	A	A
Aroclor, 1248			A	C
Aroclor, 1254			A	
Aroclor, 1260			A	A
Arsenic acid		A	A	A
Arsenic acid, aqueous		A	A	
Arsenic pentoxide			A	
Arsenic trichloride			A	
Ascorbic acid		A	A	
Askarels (e.g. Clophen, PCB)			A	
Asphalt			A	
ASTM Fuel A, +20 °C			A	
ASTM Fuel B, +20 °C			A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
ASTM Fuel C, +20 °C			A	
ASTM Oil No. 1, +100 °C			A	C
ASTM Oil No. 1, +20 °C				C
ASTM Oil No. 1, +70 °C			A	C
ASTM Oil No. 2, +100 °C			A	
ASTM Oil No. 2, +20 °C			A	C
ASTM Oil No. 2, +70 °C			A	
ASTM Oil No. 3, +100 °C			A	
ASTM Oil No. 3, +20 °C			A	
ASTM Oil No. 3, +70 °C			A	
ASTM Oil No. 4, +20 °C			A	
ASTM Reference Fuel A, +20 °C			A	
ASTM Reference Fuel B, +20 °C			A	
ASTM Reference Fuel C, +20 °C			A	
ATE Brake fluid			A	C
ATF Oil			A	
ATL 857			A	
Atlantic Dominion F			A	
Atlantic Utro Gear-EP-Lube			A	
Atropine sulfate		A	A	
Aurex 903R (Mobil)			A	
Ball-bearing grease				C
Bardol B			A	
Barium bromide		A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Barium carbonate	A	A	A	
Barium chloride	A	A	A	A
Barium chloride, aqueous		A	A	
Barium chloride, saturated		A	A	
Barium hydroxide	A	A	A	A
Barium hydroxide, aqueous		A	A	
Barium hydroxide, concentrated, +100 °C			A	
Barium hydroxide, saturated		A	A	
Barium salts of mineral acids	A			
Barium sulfate (barite, heavy spar)	A	A	A	A
Barium sulfide	A	A	A	A
Basic aluminium acetate	A	A	A	
Battery acid		A	A	
Bayol 35			A	
Bayol D			A	
BC 48 (cutting oil)			A	
Beef tallow	A		A	C
Beef tallow emulsion			A	
Beer	A	A	A	A
Beeswax	A	A	A	
Benzaldehyde (benzoic aldehyde)	A	A	A	
Benzaldoxime, aqueous			A	
Benzene	C	A	A	
Benzenesulfonic acid		A	A	



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Benzenesulfonic acid, 10%			A	
Benzoic acid (sodium salt)	A	A	A	A
Benzoic acid benzyl ester			A	
Benzoic acid ethyl ester		A	A	
Benzoic acid methyl ester			A	
Benzoic acid, aqueous	A	A	A	
Benzoic acid, saturated	A	A	A	
Benzoic aldehyde (benzaldehyde)	A	A	A	
Benzophenone			A	
Benzoyl chloride	A		A	
Benzyl acetate		A	A	
Benzyl alcohol (phenylcarbinol)	A	A	A	C
Benzyl benzoate			A	
Benzyl carbinol (phenethyl alcohol)	A	A	A	
Benzyl chloride (d-chlorotoluene)	A	A	A	
Benzylamine	A	A	A	C
Bismuth chloride			A	
Bismuth subnitrate			A	
Bisulfite solution			A	A
Bisulfite solution, containing SO <sub>2</sub>			A	
Bitter orange oil		A		
Bitumen	A	A	A	C
Black liquor			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Black Point 77			A	
Blast furnace gas			A	A
Bleaching powder	A	A	A	C
Bleaching powder, aqueous			A	
Blue vitriol (copper sulfate)	A	A	A	A
Bone oil		A	A	
Borax (sodium tetraborate)	A	A	A	C
Bordeaux mixture			A	A
Boric acid	A	A	A	A
Boric acid, 10%	A	A	A	A
Boric acid, aqueous	A	A	A	
Boron fluid (HEF)			A	
Brake fluid, ATE blue (glycol based)	A	A	A	A
Bray GG-130			A	
Brayco 719-R (W-H-910)				C
Brayco 885 (MIL-L-6085A)			A	
Bret 710			A	
Brindi acid			A	
Brine	A	A	A	
Bromine		A	A	
Bromine vapors		A	A	
Bromine water, saturated		A	A	
Bromine, liquid		A	A	
Bromobenzene (monobromobenzene)	A	A	A	
Bromochloromethane			A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Bromochlorotrifluoroethane			A	
Bromoform		A	A	
Bromomethane	A	A	A	
Bromonaphthalene		A	A	
Bromotrifluoromethane	A			
Butadiene	A	A	A	
Butanal (butyraldehyde)	C	A	A	
Butane	A	A	A	
Butane 2,2-dimethyl			A	
Butane 2,3-dimethyl			A	
Butane, gaseous	A	A	A	
Butane, liquid	A	A	A	
Butanediol	A	A	A	
Butanetriol, aqueous		A	A	A
Butanoic acid (butyric acid, propanecarboxylic acid)	C	A	A	
Butanol (butyl alcohol)	A	A	A	C
Butanol (butyl alcohol), secondary		A	A	
Butanol (butyl alcohol), tertiary		A	A	
Butanol-1 (butyl alcohol)	A	A	A	A
Butanone (methyl ethyl ketone, MEK)	A	A	A	C
Butene	A	A	A	
Butinol			A	
Butoxyethanol (butyl cello- solve)			A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Butter	A	A	A	A
Butylamine	C			
Butyl acetate (acetic acid butyl ester)	A	A	A	C
Butyl acetyl ricinol			A	
Butyl acetyl ricinoleate			A	
Butyl acrylate		A	A	
Butyl alcohol (butanol)	A	A	A	C
Butyl alcohol (butanol), secondary		A	A	
Butyl alcohol (butanol), tertiary		A	A	
Butyl benzoate		A	A	
Butyl butyrate			A	
Butyl carbitol			A	
Butyl cellosolve (butoxyethanol)			A	A
Butyl ether (dibutyl ether)		A	A	C
Butyl glycol	A	A	A	
Butyl glycol adipate			A	C
Butyl glycol ether	A	A	A	
Butyl mercaptan (1-butane-thiol)		A	A	
Butyl methacrylate		A	A	
Butyl methyl ether	A	A	A	
Butyl oleate	A	A	A	
Butyl stearate			A	C
Butylamine		A	A	C

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Butylcatechol			A	
Butylene glycol (2-butoxyethanol, butyl cellosolve)	A	A	A	A
Butylene, liquid	A	A	A	
Butylphenol		A	A	
Butylphenol, p-tertiary			A	
Butyraldehyde (butanal)	C	A	A	
Butyric acid (butanoic acid, propanecarboxylic acid)	C	A	A	
Butyric acid butyl ester			A	
Butyrolactone				C
Cadmium bromide		A	A	
Calcium acetate		A	A	
Calcium arsenate	A	A	A	
Calcium bicarbonate	A	A	A	
Calcium bisulfite	A	A	A	C
Calcium bisulfite, aqueous		A	A	
Calcium bisulfite, saturated		A	A	
Calcium bromide		A	A	
Calcium carbide			A	
Calcium carbonate (chalk)	A	A	A	A
Calcium chlorate		A		
Calcium chloride	A	A	A	C
Calcium chloride, 10%	A			
Calcium chloride, alcoholic		A	A	
Calcium chloride, aqueous	A	A	A	A
Calcium cyanide			A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Calcium hydroxide (milk of lime)	A	A	A	A
Calcium hydroxide (milk of lime), aqueous	A	A	A	A
Calcium hydroxide (milk of lime), concentrated	A	A	A	A
Calcium hypochlorite	A	A	A	A
Calcium hypochlorite, aqueous	C	A	A	C
Calcium hypochlorite, saturated	A	A	A	
Calcium nitrate, 50%		A	A	
Calcium nitrate, aqueous		A	A	C
Calcium oxide		A	A	
Calcium phosphate	A	A	A	A
Calcium phosphate, aqueous	A	A	A	A
Calcium silicate			A	
Calcium sulfate (gypsum)	A	A	A	
Calcium sulfide		A	A	C
Calcium sulfide, aqueous		A	A	
Calcium sulfite			A	A
Calcium thiosulfate			A	A
Caliche solution (Chile salt-peter)	A	A	A	C
Camphor		A	A	
Camphor oil		A	A	
Camphor oil (camphor)		A	A	
Caprylic acid (octanoic acid)		A	A	
Caprylic aldehyde (hexanal)			A	C

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Caraway	A			
Carbamate			A	
Carbazole		A		
Carbitol (diethylene glycol monoethyl ether)			A	C
Carbolic acid (phenol)		A	A	
Carbolineum	A		A	
Carbon dioxide	A		A	
Carbon dioxide, dry			A	C
Carbon dioxide, wet	A		A	A
Carbon disulfide	A	A	A	A
Carbon monoxide, dry	A		A	A
Carbon monoxide-containing waste gases			A	A
Carbon tetrachloride (tetrachloromethane)	C	A	A	
Carbon tetrachloride (tetrachloromethane, tetra)	C	A	A	
Carbonic acid	A	A	A	A
Carnauba wax		A	A	
Castor oil		A	A	A
Caustic potash (potassium hydroxide, potash lye)	A	A	A	A
Caustic soda (sodium hydroxide)		A	A	A
Caustic soda (sodium hydroxide, soda lye)	A	A	A	
Caustic soda (sodium hydroxide, soda lye), 50%	A	A	A	C
Cedar oil		A		

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Cellosolve (acetate)			A	
Cellosolve (ethyl glycol)	A	A	A	
Cellugard			A	A
Cellulose acetate (acetyl cellulose)	A	A	A	A
Cellulose thinner			A	
Cellulube 90, 100, 150, 220, 300, 500			A	A
Cesium bromide		A	A	
Cetane			A	
Cetyl alcohol (1-hexadecanol)		A	A	
Chalk (calcium carbonate)	A	A	A	A
Chloral hydrate			A	
Chloral hydrate, aqueous			A	
Chloramine		A	A	
Chlorax			A	
Chlordane			A	
Chlorextol			A	
Chloric acid		A	A	
Chloric acid, 1%			A	
Chloric acid, 10%			A	
Chloric acid, 20%			A	
Chlorine dioxide		A	A	
Chlorine gas		A	A	
Chlorine gas, dry	C	A	A	
Chlorine gas, wet		A	A	



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Chlorine sulfide (sulfur chloride)		A	A	
Chlorine water		A	A	
Chlorine water, saturated		A	A	
Chlorine, 10%, wet		A	A	
Chlorine, 97%		A	A	
Chlorine, gaseous, dry			A	
Chlorine, gaseous, moist			A	
Chlorine, liquid		A	A	
Chloroacetaldehyde			A	
Chloroacetic acid (ethyl chloroacetate)		A	A	
Chloroacetic acid ethyl ester (ethyl chloroacetate)		A	A	
Chloroacetone		A	A	
Chloroacetophenone, p-		A		
Chloroaniline		A	A	
Chlorobenzene (monochlorobenzene)	A	A	A	A
Chlorobromomethane (methylene chlorobromide)	C	A	A	
Chlorobutadiene (chloroprene)		A	A	
Chlorobutane		A	A	
Chlorocarbonic acid ethyl ester			A	
Chlorodecane			A	
Chlorodifluoromethane	A	C	A	
Chlorododecane			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Chloroethane (ethyl chloride)	A	A	A	
Chloroethanol (chloroethyl alcohol, ethylene chlorohydrin)	C	A	A	
Chloroethylbenzene, ortho-			A	
Chlorofluoromethane	A			
Chloroform (trichloromethane)		A	A	C
Chloromethane	A	A	A	
Chloromethyl		A	A	
Chloronaphthalene		A	A	
Chloropentafluoroethane	A			
Chlorophenol, ortho-			A	
Chloroprene (chlorobutadiene)		A	A	
Chlorosulfuric acid		A	A	
Chloroethene (trichloroethane, methyl chloroform)	C	A	A	
Chlorotoluene		A	A	
Chlorotrifluoromethane	A			
Chrome alum		A	A	A
Chrome bath electrolytes			A	C
Chromic acid			A	
Chromic acid, 10%	C	A	A	C
Chromic acid, 20%		A	A	
Chromic acid, 50%		A	A	
Chromium anhydride (chromium trioxide)		A	A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Chromium oxide, 0,88%, aqueous			A	C
Chromium oxychloride (chromyl chloride)		A	A	
Chromium salts		A	A	
Chromium trioxide (chromium anhydride)		A	A	
Chromosulfuric acid		A	A	
Chromyl chloride (chromium oxychloride)		A	A	
Cinnamaldehyde		A	A	A
Cinnamon oil		A		
Circo Light Process Oil			A	
Citric acid	C	A	A	
Citric acid, 10%	C	A	A	
Citric acid, 50%	A	A	A	
Citric acid, aqueous	C	A	A	A
Citric acid, saturated	A	A	A	
Citrus fruits, citrus juices	A			
Citrus juices	A	A	A	
Citrus oils	A	A	A	C
City Service # 65, #120, # 250			A	
City Service Koolmotor-AP Gear Oil 140			A	
City Service Pacemaker #2			A	
Clophen (askarels)			A	
Clophen (polychlorinated biphenyl)	A	A	A	A
Clophen A			A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Clophen A60, 50%	A			
Cloves			A	
Coal gas	A	A	A	A
Coal gas, without benzene			A	
Coal tar oil	A			
Cobalt chloride, aqueous			A	A
Cobalt(II) chloride		A	A	
Cocoa	A	A		
Cocoa butter	A	A	A	
Coconut fatty alcohol			A	
Coconut oil		A	A	A
Coconut oil (hardened)			A	A
Cod liver oil	A	A	A	A
Coffee			A	A
Coke oven gas			A	
Colamine (ethanolamine)		A	A	C
Colza oil	A	A	A	
Common salt (sodium chloride)	A	A	A	A
Compressed air			A	
Compressed-air supply			A	
Cooking fats, cooking oils	A	A	A	A
Coolanol (Monsanto), silicone oil			A	
Copper acetate, aqueous		A	A	
Copper chloride, aqueous	C	A	A	A
Copper cyanide			A	A

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Copper fluoride, aqueous		A	A	
Copper nitrate, aqueous	A	A	A	
Copper sulfate (blue vitriol)	A	A	A	A
Copper sulfate (blue vitriol), 10%	A		A	A
Copper(I) chloride			A	
Copper(II) chloride			A	
Copper(II) nitrate, aqueous	A		A	
Copper(II) nitrate, saturated	A		A	
Corn germ oil			A	
Corn oil		A	A	C
Cottonseed oil	A	A	A	A
Creosol (methylcatechol)			A	
Creosote (wood tar)		A	A	
Cresol		A	A	
Cresol (o-, m-, p-methylphenols)		A	A	
Cresylic acid			A	
Crotonaldehyde		A	A	
Crude oil	A	A	A	
Cumene (isopropylbenzene)	A	A	A	
Curry		A		
Cutting oil			A	
Cyclanon	A		A	
Cycloaliphatic hydrocarbons	A			
Cyclohexamine			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Cyclohexane (hexamethylene, hexahydrobenzene)	A	A	A	C
Cyclohexanol (hexalin, anol)	A	A	A	
Cyclohexanone (anone)	A	A	A	
Cyclohexylamine		A	A	
Cyclopentane		A	A	
Cymene		A	A	
Cymene, para			A	
Decahydronaphthalene (decane)	A	A	A	
Decalin (decahydronaphthalene, decane)	A	A	A	
Decane	A	A	A	C
Decanol	A	A	A	C
Dehydroacetic acid		A	A	
Delco brake fluid			A	
Denatured alcohol			A	C
Densodrin W			A	
Desiccator fat			A	
Desmophen			A	
Developing bath (photo)			A	
Dexron ATF			A	
Dextrin	A	A	A	A
Dextrin, aqueous	A	A	A	A
Dextrorotatory d-tartaric acid	C	A	A	A
Diacetone (diacetone alcohol, pyranton)	A	A	A	A

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Diacetone alcohol (pyranton, Dial, DA)	A	A	A	A
Diazinon (insecticide)			A	
Dibenzyl ether	A	A	A	C
Dibenzyl sebacate		A	A	
Dibromodifluoromethane			A	
Dibromoethane		A	A	
Dibromoethylbenzene (alkazene)			A	
Dibromotetrafluoromethane	A			
Dibutyl ether (butyl ether)		A	A	C
Dibutyl phthalate (palatinol A)	A	A	A	C
Dibutyl sebacate		A	A	C
Dichloroacetic acid		A	A	
Dichloroacetic acid methyl ester		A	A	
Dichlorobenzene	A	A	A	
Dichlorobenzene, 1,2-			A	
Dichlorobenzene, 1,4-			A	
Dichlorobutane (tetramethylene chloride)			A	
Dichlorobutylene		A	A	
Dichlorodifluoromethane	A	C	A	
Dichloroethane (ethylene chloride)	C	A	A	
Dichloroethylene (ethylene dichloride, vinylidene chloride)		A	A	
Dichlorofluoromethane	A		A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Dichlorohexafluorocyclobutane	A			
Dichloroisopropyl ether		A	A	
Dichloromethane (methylene chloride)	C	A	A	C
Dichloromethylene chloride		A	A	
Dichlorotetrafluoroethane	A			
Dicothyl phthalate	A			
Dicyclohexamine		A	A	
Dicyclohexylamine			A	
Diesel fuel	A		A	
Diesel oil	A	A	A	C
Diester synthetic lubricant (MIL-L-7808)			A	
Diethanolamine (DEA)	A	A	A	
Diethyl ether (ether)	A	A	A	
Diethyl ketone (3-pentanone)	A	A	A	
Diethyl malonate		A		
Diethyl sebacate		A	A	C
Diethyl sulfate			A	
Diethylamine	A	A	A	C
Diethylbenzene		A	A	
Diethylene glycol	A	A	A	C
Diethylene glycol ether		A		
Diethylene glycol monoethyl ether (Carbitol)			A	C
Difluorochloroethane	A			
Difluoroethane	A			



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Difluoromethane	A			
Difluorotetrachloroethane	A			
Diglycol (diethylene glycol)		A	A	
Diglycolic acid, 30%		A	A	
Diglycolic acid, aqueous		A	A	C
Dihydroxybenzenes (1,2-dihydroxybenzene, catechol)		A	A	
Dihydroxybenzenes (1,3-dihydroxybenzene, resorcinol)		A	A	
Dihydroxybenzenes (1,4-dihydroxybenzene, hydroquinone)		A	A	
Dihydroxysuccinic acid (tartaric acid)	C	A	A	A
Diisobutyl ketone	A	A	A	
Diisobutylene		A	A	
Diisooctyl phthalate (DOP)	A	A	A	C
Diisooctyl sebacate			A	
Diisopropyl ether (isopropyl ether)		A	A	
Diisopropyl ketone	A	A	A	
Diisopropylbenzene		A	A	
Dimethyl ether	A	A	A	
Dimethyl ketone (acetone, propanone)	C	A	A	A
Dimethyl phthalate (DMP)	A	A	A	
Dimethyl sulfoxide (DMSO)	A	A	A	A
Dimethylamine		A	A	
Dimethylaniline		A	A	C
Dimethylbenzene (xylene)	A	A	A	C

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Dimethylbutane			A	
Dimethylformamide (DMF)	A	A	A	A
Dimethylhydrazine		A	A	
Dimethylpentane			A	
Dinitrogen monoxide (laughing gas)	A	A	A	A
Dinitrotoluene			A	
Dinonyl phthalate (DNP)			A	
Diethyl adipate			A	
Diethyl phthalate (octal, DOP)	A	A	A	C
Diethyl sebacate			A	
Diethyl sebazate		A	A	
Dioxane	C	A	A	
Dioxane, 1,4-	C	A	A	
Dioxolane			A	
Dipentene			A	
Diphenyl ether (diphenyl oxide)	C	A	A	
Diphenyl oxide (diphenyl ether)	C	A	A	
Diphyl	A			
Dipropyl ketone	A			
Dipropylene glycol	A	A	A	
Dishwashing detergent	A	A	A	
Disodium phosphate	A	A	A	
Dispentene		A	A	
Disulfur dichloride (sulfur chloride)		A	A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Dodecanol (lauryl alcohol)		A	A	
Dodecyl alcohol		A	A	
Dow Corning - 3, 4			A	
Dow Corning - 5, 11, 33, 44, 55, 200			A	
Dow Corning - 510, 551			A	
Dow Corning - 704, 705			A	
Dow Corning - 710, 1208, 4050, 6620			A	
Dow Corning - F60, F61, XF60			A	
Dow Guard			A	A
Downtherm A and E		A	A	
Elco 28 EP lubricant			A	C
Epichlorohydrin	A		A	
Epoxy resin			A	
Epsom salts (magnesium sul- fate)	A	A	A	A
Esam 6 Fluid			A	
Essential oils			A	
Essitic, 42, 43			A	
Esso engine oil			A	
Esso Fuel 208			A	
Esso gearbox oil Type A			A	
Esso Golden Gasoline			A	
Esso Univis No.40 (hydraulic oil)			A	
Esso WS2812 (MIL-L-7808A)			A	
Esso XP90-EP lubricant			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Ethanal (acetaldehyde)	A	A	A	
Ethane			A	
Ethanedioic acid (oxalic acid), aqueous		A	A	C
Ethanol (ethyl alcohol, spirit), 100%	A	A	A	C
Ethanol (ethyl alcohol, spirit), 40%	A	A	A	C
Ethanol (ethyl alcohol, spirit), 50%	A	A	A	C
Ethanol (ethyl alcohol, spirit), 96%	A	A	A	C
Ethanol, 50%	A	A	A	
Ethanol, 96%	A	A	A	
Ethanolamine (colamine)		A	A	C
Ether (diethyl ether)	A	A	A	
Ethyl acetate (acetic acid ethyl ester, acetic ester)	C	A	A	C
Ethyl acrylate (acrylic acid ethyl ester)	A	A	A	
Ethyl alcohol	A	A	A	
Ethyl alcohol (ethanol, spirit)	A	A	A	C
Ethyl benzoate			A	
Ethyl bromide			A	
Ethyl butyrate		A		
Ethyl cellulose		A	A	
Ethyl chloride (chloroethane)	A	A	A	
Ethyl chloroacetate (chloro- acetic acid ethyl ester)		A	A	
Ethyl cyanoacetate		A		

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Ethyl ether (ether, diethyl ether)	A	A	A	
Ethyl formate			A	
Ethyl glycol (cellosolve)	A	A	A	
Ethyl lactate		A		
Ethyl mercaptan			A	
Ethyl methyl ketone	A	A	A	C
Ethyl oxalate		A	A	
Ethyl pentachlorobenzene		A	A	
Ethyl silicate		A	A	
Ethylbenzene	A	A	A	
Ethylcyclopentane			A	
Ethylene	A	A	A	
Ethylene bromide		A	A	
Ethylene chloride (dichloroethane)	C	A	A	
Ethylene chlorohydrin (chloroethanol)	C	A	A	
Ethylene dibromide			A	
Ethylene dichloride (dichloroethylene, vinylidene chloride)		A	A	
Ethylene formate		A	A	
Ethylene glycol (glycol, 1,2-ethanediol)	A	A	A	A
Ethylene glycol monoethyl ether acetate		A		
Ethylene mercaptan		A	A	
Ethylene oxide	A	A	A	
Ethylene trichloride			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Ethylenediamine (1,2-diaminoethane)	A	A	A	
Ethylenediaminetetraacetic acid (EDTA)	A	A	A	
Ethylhexanol (isooctyl alcohol, 2-ethyl-1-hexanol)	A	A	A	C
FAM Test fuels DIN 51604 A			A	
FAM Test fuels DIN 51604 C			A	
Fats, cooking oils	A		A	
Fats, mineral	A	A	A	C
Fats, vegetable and animal	A	A	A	C
Fatty acids	A	A	A	C
Fatty alcohol sulfonates	A		A	
FC 43 Heptacosofluorotributylamine			A	A
FC 75			A	A
Ferric chloride (iron(III) chloride)	C	A	A	
Ferrous chloride (iron(II) chloride)	C	A	A	
Firewaters (ethyl alcohol, spirit)	A	A	A	C
Fixing baths	A		A	C
Fixing salt (antichlor, sodium thiosulfate)	C	A	A	A
Flaxseed oil (linseed oil)	A	A	A	A
Fluorammon (ammonium fluoride)	A	A	A	A
Fluoric acid (hydrofluoric acid), 4%		A	A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Fluoric acid (hydrofluoric acid), 40%		A	A	
Fluoric acid (hydrofluoric acid), 50%		A	A	
Fluoric acid (hydrofluoric acid), 70%		A	A	
Fluoric acid (hydrofluoric acid), <65%, cold		A	A	
Fluoric acid (hydrofluoric acid), > 65%, cold			A	
Fluorides		A		
Fluorine		A	A	
Fluorine, dry		A	A	
Fluoroacetic acid			A	
Fluorobenzene			A	
Fluoroboric acid			A	
Fluorocarbons (FCs)			A	
Fluorochloroalkanes (CFCs)	A			
Fluorolub			A	A
Fluoronaphthalene (1-, 2-fluoronaphthalene)		A	A	
Fluoronitrobenzene (2-, 3-, 4-fluoronitrobenzene)		A	A	
Formaldehyde (formalin, methanal)	A	A	A	A
Formaldehyde (formalin, methanal), 10%	A	A	A	
Formaldehyde (formalin, methanal), 30%	A	A	A	
Formaldehyde (formalin, methanal), 40%	A	A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Formamide	A	A	A	
Formic acid		A	A	C
Formic acid methyl ester (methyl formate)	A	A	A	C
Formic acid, 3%	A	A	A	
Formic acid, 50%		A	A	
Formic acid, 70%, +70 °C			A	
Formic acid, 98-100%		A	A	A
Freon (Frigen) 11	C	A	A	
Freon (Frigen) 112			A	
Freon (Frigen) 113	C	A	A	
Freon (Frigen) 114			A	
Freon (Frigen) 115			A	
Freon (Frigen) 12		A	A	
Freon (Frigen) 13 B1			A	
Freon (Frigen) 14			A	
Freon (Frigen) 218			A	
Freon (Frigen) 22		A	A	
Freon (Frigen) TA			A	A
Freon (Frigen) TC			A	
Freon (Frigen) TF			A	
Freon (Frigen) TMC			A	
Freon (Frigen) TP 35			A	A
Freon (Frigen) TWD 602			A	
Fructose	A	A	A	
Fruit juices	A	A	A	A



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Fruit pulp	A	A	A	
Fruit wine	A	A		
Fryquel 90, 100, 150, 220, 300, 500			A	A
Fryquel A60			A	
Fuel + 20% ethanol	A		A	
Fuel + 20% methanol	A		A	
Fuel oil, black coal- and brown coal-based	A	A	A	
Fuel oil, mineral oil-based	A	A	A	
Fuel, premium	A		A	
Fuel, regular	A			
Fuel, unleaded			A	
Fumaric acid		A	A	C
Furan		A	A	
Furfural			A	
Furfuraldehyde			A	
Furfurol (furfuryl alcohol)	A	A	A	
Gallic acid (trihydroxybenzoic acid)		A	A	A
Galvanic baths		A	A	C
Gas liquor		A	A	
Gas oil			A	
Gasoline	A	A	A	
Gasoline + 20% ethanol			A	
Gasoline + 20% methanol			A	
Gasoline, premium	A	A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Gasoline, unleaded	A	A	A	
Gasoline/benzene 60/40 and 50/50		A	A	
Gasoline/benzene 80/20 and 70/30		A	A	
Gasoline/benzene/ethanol 50/30/20		A	A	
Gear oil Type A			A	C
Gear oil, mineral	A	A	A	C
Gelatine	A	A	A	
Gelatine, aqueous	A	A	A	A
Genantin (ethylene glycol)	A		A	
Generator gas			A	C
Girling brake fluid			A	
Glacial acetic acid (acetic acid), concentrated	C	A	A	C
Glauber's salt (sodium sulfate)	A	A	A	A
Glucose (grape sugar)	A	A	A	A
Glue (animal glue)	A	A	A	A
Glycerine (glycerol)	C	A	A	A
Glycerol chlorohydrin			A	
Glycerol triacetate (triacetin)		A	A	A
Glyceryl nitrate (nitroglycerin)		A	A	
Glyceryl trinitrate (nitroglycerin)		A	A	
Glycol (ethylene glycol)	A	A	A	A
Glycolic acid (hydroxyacetic acid)		A	A	A

List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Glycolic acid (hydroxyacetic acid), 37%		A	A	
Glycolic acid (hydroxyacetic acid), 70%		A	A	A
Glysantin	A		A	
Grape sugar (glucose)	A	A	A	A
Green Liquor			A	
Gulf Endurance Oils			A	
Gulf FR Fluids Emulsion			A	
Gulf FR G-Fluids			A	A
Gulf FR P-Fluids			A	A
Gulf Harmony Oils			A	
Gulf High Temperature Grease			A	
Gulf Legion Oils			A	
Gulf Paramount Oils			A	
Gulf Security Oils			A	
Gulfcrown Grease			A	
Gum tragacanth	A	A	A	
Gypsum (calcium sulfate)	A	A	A	
Halon 1301			A	
Halothane			A	
Halowax oil			A	
Hannifin, Parker-O-Lube			A	C
HD Oil, motor oil free of aromatics	A		A	
Heavy water			A	A
HEF 2			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Helium gas	A	A	A	A
Henkel P3 solution			A	A
Heptane	A	A	A	A
Hexachlorobenzene (HCB)	A			
Hexachlorobutadiene (tripen)	A		A	
Hexachlorocyclohexane			A	
Hexadecane			A	
Hexafluoroisopropylene		A	A	
Hexahydrobenzene (cyclohexane, hexamethylene)	A	A	A	C
Hexaldehyde	C	A	A	C
Hexalin (cyclohexanol)	A	A	A	
Hexamethylene (cyclohexane, hexahydrobenzene)	A	A	A	C
Hexanal (caprylaldehyde)			A	C
Hexane	A	A	A	C
Hexanetriol		A	A	A
Hexanoic acid			A	
Hexanol (hexyl alcohol)	A	A	A	C
Hexanol-1			A	
Hexene			A	
Hexyl alcohol (hexanol)	A	A	A	C
High Viscosity Lubricant H2			A	A
High Viscosity Lubricant U4			A	A
Honey	A	A	A	
Houghto Safe 1010 (phosphate ester, HFD-R)			A	

List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Houghto Safe 1055 (phosphate ester, HFD-R)			A	
Houghto Safe 1120 (phosphate ester, HFD-R)			A	
Houghto Safe 271 (water/glycol, HFC)			A	C
Houghto Safe 5040 (water/oil emulsion)			A	
Houghto Safe 620 (water/glycol, HFC)			A	C
Hydraulic fluid HFA, +50 °C				C
Hydraulic fluid HFB, +50 °C				C
Hydraulic fluid HFC, +60 °C				C
Hydraulic fluid HFD-R, +100 °C				A
Hydraulic fluid HFD-S, +100 °C				A
Hydraulic fluid H, HL, HLP (mineral oil-based)			A	
Hydraulic fluid HSA (oil-in-water emulsion)			A	
Hydraulic fluid HSB (water-in-oil emulsion)			A	
Hydraulic fluid HSC (polyglycol-based)			A	
Hydraulic fluid HSD a (R)			A	C
Hydraulic fluid HSD b (S)			A	C
Hydraulic fluid HSD c (T)			A	C
Hydraulic fluid, group H, HL, HLP (mineral oil-based)	A	A	A	
Hydraulic fluid, group HSA (oil-in-water emulsion)	A	A	A	
Hydraulic fluid, group HSB (water-in-oil emulsion)	A	A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Hydraulic fluid, group HSC (polyglycol-based)	A	A	A	C
Hydraulic fluid, group HSD a (R) (phosphoric ester)	A	A	A	C
Hydraulic fluid, group HSD b (S) (phosphoric ester)	A	A	A	C
Hydraulic fluid, group HSD c (T) (phosphoric ester)	A	A	A	C
Hydraulic oils (mineral oil-based)	A		A	
Hydrazine	A	A	A	
Hydrazine hydrate (diamide hydrate)	A	A	A	
Hydrazine, dry			A	
Hydro-Drive MIH 10, 50 (mineral oil-based)			A	C
Hydrobromic acid		A	A	
Hydrobromic acid, 40%		A	A	
Hydrobromic acid, 50%		A	A	
Hydrobromic acid, aqueous		A	A	
Hydrobromic acid, diluted		A	A	
Hydrochloric acid (muriatic acid), 1-5%		A	A	
Hydrochloric acid (muriatic acid), 10%		A	A	C
Hydrochloric acid (muriatic acid), 20%		A	A	
Hydrochloric acid (muriatic acid), 35%		A	A	
Hydrochloric acid (muriatic acid), 37%		A	A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Hydrochloric acid (muriatic acid), 48%			A	
Hydrochloric acid (muriatic acid), concentrated		A	A	
Hydrochloric acid (spirits of salt)		A	A	
Hydrocyanic acid (hydrogen cyanide)	C	A	A	A
Hydrofluorosilicic acid (silicic acid)	A	A	A	
Hydrogen			A	
Hydrogen chloride		A	A	
Hydrogen peroxide, 10%		A	A	A
Hydrogen peroxide, 100%		A	A	
Hydrogen peroxide, 3%	A	A	A	
Hydrogen peroxide, 30%	A	A	A	A
Hydrogen peroxide, 8%		A	A	
Hydrogen peroxide, 90%	C	A	A	A
Hydrogen peroxide, diluted	A	A	A	A
Hydrogen phosphide		A	A	
Hydrogen sulfide	A	A	A	
Hydrogen sulfide, dry, cold			A	
Hydrogen sulfide, dry, hot			A	
Hydrogen sulfide, wet, cold			A	
Hydrogen sulfide, wet, hot			A	
Hydrogen sulfide, saturated	A			
Hydrogen, gaseous	A	A	A	
Hydroiodic acid		A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Hydrolube (water/ethylene glycol)			A	C
Hydroquinone (1,4-dihydroxybenzene)		A	A	A
Hydroxyacetic acid (glycolic acid)		A	A	A
Hydroxylamine sulfate, aqueous		A	A	A
Hydyne			A	
Hypochlorous acid			A	
Industron FF44, FF48, FF53, FF80			A	
Ink	A	A	A	A
Iodine pentafluoride		A	A	
Iodine tincture	A	A	A	C
Iodine, dry		A	A	
Iodine-potassium iodide solution	C	A	A	
Iodoform (triiodomethane)		A	A	
Iron chloride, aqueous		A	A	A
Iron nitrate, aqueous	A	A	A	C
Iron nitrate, saturated		A	A	
Iron sulfate (iron vitriol), aqueous	A	A	A	C
Iron(II) chloride, aqueous (ferrous chloride)	C	A	A	
Iron(II) sulfate		A	A	
Iron(II) sulfate, aqueous		A	A	
Iron(II) sulfate, saturated		A	A	



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Iron(III) chloride (ferric chloride)	C	A	A	
Iron(III) sulfate		A	A	
Isoamyl alcohol	A	A	A	C
Isobutanol (isobutyl alcohol)	A	A	A	A
Isobutyl acetate	A	A	A	
Isobutyl alcohol (isobutanol)	A	A	A	A
Isobutyl butyrate			A	
Isobutyl methyl ketone		A	A	
Isobutyraldehyde				C
Isododecane			A	
Isooctane	A	A	A	
Isooctyl alcohol (ethylhexanol)	A	A	A	C
Isophorone			A	
Isopropanol (2-propanol)	A	A	A	A
Isopropyl acetate	A	A	A	
Isopropyl alcohol (isopropanol, persprit)	A	A	A	C
Isopropyl chloride		A	A	
Isopropyl ether (diisopropyl ether)		A	A	
Isopropyl formate			A	C
Isopropylacetone (methyl isobutyl ketone, MIBK)	A	A	A	
Isopropylbenzene (cumene)	A	A	A	
Jam		A	A	
Javel water (sodium hypochlorite, bleaching solution)		A	A	C

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
JP 3 (MIL-J-5624)			A	
JP 4 (MIL-J-5624)			A	
JP 5 (MIL-J-5624)			A	
JP 6 (MIL-J-5624)			A	
JP X (MIL-F-25604)			A	
KEL-F liquid			A	A
Kerosene	A	A	A	
Keystone # 87HX-Grease			A	
Lactam			A	
Lactic acid	A	A	A	C
Lactic acid, 3%	A	A	A	
Lactic acid, 80%	C	A	A	
Lactic acid, aqueous	C	A	A	A
Lactic acid, concentrated	C	A	A	
Lactose	A	A	A	A
Lanolin (wool grease)	A	A	A	C
Lard		A	A	C
Lard, animal fat			A	C
Latex	A		A	
Laughing gas (nitrous oxide)	A	A	A	A
Lauric acid (dodecanoic acid)		A	A	
Lauryl alcohol (dodecanol)		A	A	
Lauryl chloride		A	A	
Lavender oil	A	A	A	
Lead acetate (lead sugar)	A	A	A	
Lead nitrate		A	A	C

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Lead stearate		A	A	
Lead sugar (lead acetate)	A	A	A	
Lead sulfamate			A	
Lead sulfate		A	A	C
Lead tetraethyl (tetraethyl lead, TEL)		A	A	
Lead(II) acetate	A	A	A	
Lead(II) acetate, aqueous	A	A	A	
Lead(II) nitrate		A	A	
Lead(II) nitrate, aqueous		A	A	
Lehigh X1 169			A	
Lehigh X1 170			A	
Lemon juice	A	A	A	
Lemon peel oil		A		
Light oil (crude benzene)			A	
Ligroin (white spirit)			A	
Lindol, hydraulic fluid (phosphate ester)			A	
Linoleic acid		A	A	C
Linseed oil (flaxseed oil)	A	A	A	A
Liqueurs	A	A	A	A
Liqui Moly			A	
Liquid manure	A	A	A	A
Liquid soaps	A	A	A	
Lithium bromide			A	
Lithium bromide, aqueous	A	A	A	A
Lithium chloride, aqueous	A	A	A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Lubricating oil (diester-based)			A	
Lubricating oil (mineral oil-based)	A	A	A	C
Lubricating oil (SAE 10, 20, 30, 40, 50)			A	
Lyes, diluted	A	A	A	C
Lysol		A	A	A
Machine oil	A		A	
Magnesium bromide	A	A	A	
Magnesium carbonate	A	A	A	A
Magnesium chloride, aqueous	A	A	A	A
Magnesium chlorite	A		A	A
Magnesium hydroxide	A	A	A	A
Magnesium iodide	A	A	A	
Magnesium nitrate	A	A	A	
Magnesium sulfate (Epsom salt)	A	A	A	A
Magnesium sulfide			A	A
Magnesium sulfite			A	A
Malathion			A	
Maleic acid (cis-butenedioic acid), aqueous		A	A	
Maleic acid (cis-butenedioic acid), saturated		A	A	
Maleic anhydride			A	
Malic acid			A	
Margarine	A	A	A	A
MCS 312			A	A

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
MEK (butanone, methyl ethyl ketone)	A	A	A	C
Menthol		A	A	
Mercury	A	A	A	A
Mercury (II) chloride	C	A	A	
Mercury (II) cyanide		A	A	
Mercury chloride	C	A	A	
Mercury chloride, aqueous	A	A	A	A
Mercury nitrate		A	A	A
Mersol D			A	
Mesityl oxide (diacetone alcohol)			A	
Methacrylic acid			A	
Methanal (formaldehyde)	A	A	A	A
Methane	A	A	A	
Methane (mine gas, natural gas)	A	A	A	C
Methanol (methyl alcohol, wood alcohol)	A	A	A	A
Methoxybenzene (anisole, methyl phenyl ether)	C	A	A	
Methoxybutanol (methoxybutyl alcohol)		A	A	
Methoxybutyl alcohol (methoxybutanol)		A	A	
Methoxyethyl oleate		A		
Methyl acetate (acetic acid methyl ester)	C	A	A	
Methyl acetoacetate				C

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Methyl alcohol (methanol, wood alcohol)	A	A	A	A
Methyl bromide		A	A	
Methyl butanol	A		A	
Methyl butyl ether	C	A	A	
Methyl butyl ketone		A	A	C
Methyl carbonate			A	
Methyl cellosolve (methyl glycol acetate)	C	A	A	C
Methyl cellulose			A	C
Methyl chloride		A	A	
Methyl chloroform (trichloroethane, chloroethene)	C	A	A	
Methyl cyanide (acetonitrile)		A	A	
Methyl dichloroacetate		A	A	
Methyl ethyl ether			A	
Methyl ethyl ketone peroxide				C
Methyl formate (formic acid methyl ester)	A	A	A	C
Methyl glycol	A	A	A	
Methyl glycol acetate (methyl cellosolve)	C	A	A	C
Methyl isobutyl ketone (isopropylacetone, MIBK)	A	A	A	
Methyl methacrylate			A	C
Methyl monochloroacetate			A	
Methyl phenyl ether (anisole, methoxybenzene)			A	
Methyl salicylate			A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Methylamine (monomethylamine)	A	A	A	
Methylaniline			A	
Methylbenzene (toluene)	A	A	A	C
Methylcatechol (creosol)			A	
Methylcyclohexane			A	
Methyl methacrylate		A		
Methyl monochloroacetate		A		
Methyl phenyl ether (anisole, methoxybenzene)	C	A		
Methylene chloride (dichloromethane)	C	A	A	C
Methylene chlorobromide (chlorobromomethane)	C	A	A	
Methylpentane (2-)			A	
Methylsulfuric acid, 50%			A	
Milk	A	A	A	A
Milk of lime (calcium hydroxide)	A	A	A	A
Mine gas (methane, natural gas)	A	A	A	C
Mineral oils	A	A	A	C
Mineral water	A	A	A	A
Molasses	A	A	A	A
Molasses wort		A	A	
Monobromobenzene	A	A	A	
Monochloroacetic acid		A	A	
Monochloroacetic acid ester	A	A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Monochlorobenzene (chlorobenzene)	A	A	A	A
Monochloroethyl acetate			A	
Monoethanolamine		A	A	C
Mononitrotoluene			A	
Monovinylacetylene				C
Morpholine (diethylene oxide)		A	A	
Mowilith D			A	
Mustard	A	A		
Mustard gas				A
Myristyl alcohol (myristic alcohol)	A	A	A	
n-amyl acetate	A	A	A	
n-pentane		A	A	
Naftolen ZD			A	
Naphtha	A	A	A	C
Naphthalene (in alcohol)	A		A	
Naphthalene (rock oil)	A	A	A	
Naphthenic acid			A	
Natural gas (mine gas, methane)	A	A	A	C
Neatsfoot oil		A	A	C
Nekal BX, aqueous			A	
Neon gas	A	A	A	A
Nevile and Winther's acid			A	
Nickel acetate, aqueous		A	A	
Nickel chloride		A	A	A



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Nickel nitrate	A	A	A	A
Nickel sulfate	A	A	A	A
Nickel sulfate, aqueous	A	A	A	
Nickel sulfate, saturated	A	A	A	
Nickel(II) chloride	A	A	A	
Nicotine, aqueous	A	A	A	
Nicotinic acid	A	A	A	
Nitric acid, 1-10%		A	A	C
Nitric acid, 10%		A	A	C
Nitric acid, 100%			A	
Nitric acid, 3-molar			A	
Nitric acid, 30%		A	A	
Nitric acid, 50%		A	A	
Nitric acid, 65% (aqua fortis)		A	A	
Nitric acid, 66%		A	A	
Nitric acid, 70%		A	A	
Nitric acid, fuming		A	A	
Nitroalcohol (nonanol)		A	A	
Nitrobenzene (oil of mirbane)	C	A	A	
Nitrobutanol		A	A	
Nitroethane			A	
Nitrogen	A	A	A	A
Nitrogen tetraoxide			A	
Nitroglycerin (glyceryl nitrate)		A	A	
Nitroglycerin (glyceryl trinitrate)		A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Nitroglycol, aqueous		A	A	
Nitromethane		A	A	
Nitropropane			A	
Nitrosulfuric acid		A	A	
Nitrotoluene	C	A	A	
Nitrous acid		A	A	
Nitrous fumes			A	
Nut oil			A	A
O-A-548A				C
Octachlorotoluene			A	
Octadecane		A	A	
Octafluorocyclobutane	A			
Octal (dioctyl phthalate, DOP)	A	A	A	C
Octane	A	A	A	
Octane chlorotoluene			A	
Octanol			A	
Octyl alcohol	A	A	A	C
Octyl cresol		A	A	
Oil of mirbane (nitrobenzene)	C	A	A	
Oils and fats, vegetable			A	
Oils, essential			A	
Oleic acid	A	A	A	
Oleum (fuming sulfuric acid)		A	A	
Oleyl alcohol			A	
Olive oil	A	A	A	C
Orange juice		A	A	

**List of chemical resistance**

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Orange peel oil	A		A	
Oronite 8200, 8515			A	
Ortho-chloroethyl benzene			A	
OS 45 type III (OS45)			A	
OS 45 type IV (OS45-1)			A	
OS 70			A	
Oxalic acid (ethanedioic acid)	A	A	A	A
Oxalic acid (ethanedioic acid), aqueous		A	A	C
Oxygen	A	A	A	A
Oxygen, gaseous, cold			A	A
Ozone			A	C
Ozone air mixture		A	A	A
P3 solution			A	A
P3 solution, aqueous	A			
Paint thinners		A	A	
Palatinol A (dibutyl phthalate)	A	A	A	C
Palm kernel fatty acid			A	
Palm kernel oil			A	
Palm oil			A	
Palmitic acid	C	A	A	
Para-dichlorobenzene			A	
Paraffin (alkane)	A	A	A	
Paraffin emulsion			A	
Paraffin oil	A	A	A	A
Paraffin wax, molten	A	A	A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Parker-O-Lube				C
Peanut oil	A	A	A	A
Pectin	A	A	A	A
Pectin, aqueous	A	A	A	A
Penicillin		A		
Pentachlorodiphenyl			A	
Pentane	A			
Pentane, 2,4-dimethyl			A	
Pentane, 2-methyl			A	
Pentane, 3-methyl			A	
Pentane, n-			A	
Pentanol (pentyl alcohol, amyl alcohol)	A	A	A	
Pentyl alcohol (pentanol, amyl alcohol)	A	A	A	
Pentyl chloride (amyl chloride, 1-chloropentane)	A	A	A	
Peracetic acid		A	A	
Perchloric acid	C	A	A	C
Perchloric acid (hyperchloric acid)	C	A	A	C
Perchloric acid 2N			A	
Perchloric acid, 20%		A	A	
Perchloric acid, 70%		A	A	
Perchloroethylene (tetrachloroethylene)	C	A	A	
Perfume		A	A	
Perfluoropropane	A			

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Petroleum	A	A	A	C
Petroleum ether	A	A	A	C
Phenol (carbolic acid)		A	A	
Phenol (carbolic acid), 70%, water, 30%			A	
Phenol (carbolic acid), 85%, water 15%			A	
Phenyl ethyl ether			A	
Phenylbenzene			A	
Phenylcarbinol (benzyl alcohol)	A	A	A	C
Phenylethanol		A	A	
Phenylethyl alcohol (benzyl carbinol)	A	A	A	
Phenylhydrazine	A	A	A	
Phenylhydrazine HCl			A	
Phorone			A	
Phosgene, gaseous			A	
Phosgene, liquid	C	A	A	
Phosphates		A	A	
Phosphine	A		A	
Phosphoric acid, 1-5%	C	A	A	
Phosphoric acid, 10%	C			
Phosphoric acid, 20%		A	A	C
Phosphoric acid, 30%		A	A	A
Phosphoric acid, 45%			A	
Phosphoric acid, 50%			A	A
Phosphoric acid, 85%	A	A	A	C

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Phosphoric acid, concentrated		A	A	
Phosphorus oxychloride		A	A	
Phosphorus pentachloride			A	
Phosphorus pentoxide			A	
Phosphorus pentoxide		A	A	
Phosphorus trichloride	C	A	A	
Photo developers	A	A	A	A
Photographic developers	A		A	
Photographic emulsions	A		A	
Phthalic acid (benzene-o-dicarboxylic acid)	A	A	A	A
Phthalic anhydride, aqueous			A	A
Picric acid, aqueous	C	A	A	
Picric acid, molten			A	
Pine needle oil			A	C
Pine oil		A	A	
Pine oil, +70 °C			A	
Pine tar (creosote)		A	A	
Pineapple juice		A	A	
Pinene			A	
Piperidine		A	A	
Polyethylene glycol	A			
Polyglycol		A	A	
Polysolvan O	A			
Polyvinyl acetate emulsion			A	
Potassium acetate	A	A	A	

**List of chemical resistance**

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Potassium bichromate		A	A	
Potassium bichromate, 10%	A			
Potassium bisulfate		A	A	C
Potassium borate		A	A	C
Potassium borate, 10%	A	A	A	
Potassium bromate		A	A	C
Potassium bromate, aqueous			A	
Potassium bromate, saturated			A	
Potassium bromide	A	A	A	
Potassium carbonate	A	A	A	A
Potassium carbonate (potash)	A	A	A	A
Potassium carbonate (potash), aqueous	A	A	A	C
Potassium carbonate, aqueous	A	A	A	C
Potassium chlorate		A	A	
Potassium chlorate, aqueous	A		A	
Potassium chlorate, saturated	A		A	
Potassium chloride (sylvine)	A	A	A	A
Potassium chromate, yellow		A	A	
Potassium chromate, yellow, aqueous			A	
Potassium chromate, yellow, saturated			A	
Potassium copper cyanide			A	A
Potassium cyanide	A	A	A	A
Potassium cyanide, aqueous	C	A	A	
Potassium cyanide, saturated	C	A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Potassium dichromate		A	A	
Potassium dichromate, aqueous	C		A	A
Potassium dichromate, saturated	C		A	
Potassium ferricyanide	A	A	A	
Potassium ferrocyanide	A	A	A	
Potassium fluoride	A	A	A	
Potassium hydrogen carbonate	A	A	A	
Potassium hydrogen sulfate	A	A	A	
Potassium hydrogen sulfate, aqueous	A	A	A	
Potassium hydrogen tartrate		A	A	
Potassium hydroxide (caustic potash, potash lye)	A	A	A	A
Potassium hydroxide (caustic potash, potash lye), 1%	A	A	A	
Potassium hydroxide (caustic potash, potash lye), 10%	A	A	A	
Potassium hydroxide (caustic potash, potash lye), 30%			A	
Potassium hydroxide (caustic potash, potash lye), 50%	C	A	A	
Potassium hypochlorite		A	A	
Potassium iodate			A	
Potassium iodide		A	A	A
Potassium iodide, aqueous	A	A	A	C
Potassium iodide, saturated	A	A	A	
Potassium nitrate (saltpeter)	A	A	A	A



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Potassium nitrate (saltpeter), 50%	A	A	A	
Potassium nitrate (saltpeter), aqueous	A	A	A	
Potassium perchlorate		A	A	
Potassium perchlorate, aqueous	A	A	A	
Potassium perchlorate, saturated	A	A	A	
Potassium permanganate	C	A	A	
Potassium permanganate, 1%	A			
Potassium permanganate, aqueous	C	A	A	
Potassium persulfate	C	A	A	
Potassium sulfate	C	A	A	A
Potassium sulfide			A	
Potassium sulfite	A	A	A	A
Potassium thiosulfate	A	A	A	
Prestone antifreeze			A	A
PRL high temperature hydraulic oil			A	C
Propanal (propionaldehyde)		A	A	
Propane, gaseous	A	A	A	
Propane, liquid	A	A	A	
Propanecarboxylic acid (butyric acid, butanoic acid)	C	A	A	
Propanediol (propylene glycol)	A	A	A	
Propanol (propyl alcohol)	A	A	A	C
Propanone (acetone, dimethyl ketone)	C	A	A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Propargyl alcohol			A	
Propargyl alcohol, aqueous			A	
Propene	A		A	
Propionic acid (methyl acetic acid)		A	A	
Propionic acid (methyl acetic acid), 50%			A	
Propyl acetate	A	A	A	
Propyl acetone, n-			A	
Propyl alcohol (propanol)	A	A	A	C
Propyl nitrate		A	A	
Propylamine	C	A	A	
Propylene	A	A	A	
Propylene glycol (propanediol)	A	A	A	
Propylene oxide		A	A	
Prussic acid (hydrocyanic acid)	C	A	A	A
Pseudocumene			A	
Pyanol		A	A	C
Pydraul C				C
Pydraul E (29, 30, 50, 65, 90, 11)				C
Pydraul 30E, 50E, 65E, 90E (HFD-R)				A
Pydraul F9				A
Pyranol, transformer oil (PCB)			A	
Pyranton (diacetone alcohol, Dial, DA)	A	A	A	A
Pyridine	C	A	A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Pyrogallol (pyrogallic acid)	C	A	A	
Pyrogard 42, 43, 53, 55 (HFD-R)			A	
Pyrogard C, D			A	C
Pyrolube			A	C
Pyrrole		A	A	C
Quinine		A	A	
Rapeseed oil		A	A	A
RED Oil (MIL-H-5606)			A	
Refrigerant R TA				A
Refrigerant R TP 35				A
Resorcinol (1,3-dihydroxybenzene)		A	A	
Resorcinol, 5%		A		
RJ-I (MIL-F-25558)			A	
RJ-I (MIL-F-25576)			A	
Rubber dispersion	A			
Saccharic acid		A	A	
Sal ammoniac (ammonium chloride)	C	A	A	A
Sal volatile (ammonium carbonate)	A	A	A	
Salicylaldehyde		A	A	
Salicylic acid (o-Hydroxybenzoic acid)		A	A	A
Salicylic acid, powder		A	A	
Salicylic acid, saturated		A	A	
Salt water (sea water)	A	A	A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Saltpeter (potassium nitrate)	A	A	A	A
Santo Safe 300			A	A
Saturated steam condensate			A	
Sea water (salt water)	A	A	A	A
Selenium chloride		A	A	
Silicate ester			A	
Silicic acid (hydrofluorosilicic acid)	A	A	A	
Silicone grease	A	A	A	
Silicone oil	A	A	A	
Silver acetate	C	A	A	A
Silver cyanide		A		
Silver nitrate (lunar caustic)	C	A	A	A
Silver nitrate (lunar caustic), aqueous	A	A	A	
Sinclair Opaline CX-EP Lube			A	
Skelly, Solvent B, C, E			A	
Skydrol 500 (B4)		A		
Soap water (soap hydrous solution)	A	A	A	A
Socony Mobile Type A			A	
Socony Vacuum AMV AC 781			A	
Socony Vacuum PD959B			A	
Soda (sodium carbonate)	A	A	A	A
Soda (sodium carbonate), aqueous	A	A	A	A
Sodium acetate	A	A	A	A
Sodium aluminum sulfate		A	A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Sodium benzoate	A	A	A	
Sodium benzoate, aqueous	A	A	A	A
Sodium bicarbonate, aqueous	A	A	A	A
Sodium bisulfate	A	A	A	A
Sodium bisulfate, aqueous	A	A	A	A
Sodium bisulfite, aqueous		A	A	A
Sodium borate, aqueous	A	A	A	A
Sodium borate, saturated	A	A	A	
Sodium bromate	A		A	
Sodium bromide	A	A	A	
Sodium carbonate (soda)	A	A	A	A
Sodium carbonate (soda), aqueous	A	A	A	A
Sodium chlorate	A	A	A	
Sodium chlorate, aqueous	A	A	A	A
Sodium chloride (common salt)	A	A	A	A
Sodium chlorite, aqueous		A	A	
Sodium chlorite, diluted			A	
Sodium chromate			A	
Sodium cyanide	A	A	A	A
Sodium cyanide, aqueous	C	A	A	
Sodium cyanide, saturated	C	A	A	
Sodium dichromate	A	A	A	C
Sodium dichromate, aqueous		A	A	
Sodium dithionite			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Sodium dodecylbenzenesulfonate	A		A	
Sodium fluoride	A	A	A	C
Sodium hexacyanoferrate(II)		A	A	
Sodium hexametaphosphate	A	A	A	
Sodium hydroxide (caustic soda, soda lye)	A	A	A	C
Sodium hydroxide (caustic soda, soda lye), 1%	A	A	A	
Sodium hydroxide (caustic soda, soda lye), 30%	A	A	A	
Sodium hydroxide (caustic soda, soda lye), 45%	A		A	
Sodium hydroxide (caustic soda, soda lye), 50%	A	A	A	C
Sodium hydroxide (caustic soda, soda lye), 60%			A	
Sodium hydroxide (caustic soda, soda lye), concentrated			A	
Sodium hypochlorite (bleaching solution, Javel water)		A	A	C
Sodium hypochlorite (bleaching solution, Javel water), 12.5%		A	A	C
Sodium hypochlorite (bleaching solution, Javel water), 15%		A	A	C
Sodium hypochlorite (bleaching solution, Javel water), diluted		A	A	C
Sodium hypochlorite (bleaching solution, Javel water), saturated		A	A	C

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Sodium iodide	A	A	A	
Sodium metabisulfite			A	
Sodium metaphosphate		A	A	
Sodium metasilicate			A	
Sodium nitrate (Chile salt-peter)	A	A	A	C
Sodium nitrate (Chile salt-peter), aqueous	A	A	A	
Sodium nitrate (Chile salt-peter), saturated	A	A	A	
Sodium nitrite		A	A	
Sodium nitrite, aqueous	A		A	
Sodium nitrite, saturated	A		A	
Sodium oxalate	A	A	A	
Sodium perborate	A	A	A	C
Sodium perborate, aqueous	A		A	
Sodium perborate, saturated	A		A	
Sodium perchlorate	A		A	A
Sodium peroxide		A	A	
Sodium peroxide, saturated			A	
Sodium persulfate			A	
Sodium phosphate	A	A	A	
Sodium phosphate, aqueous	A	A	A	
Sodium phosphate, saturated	A	A	A	
Sodium silicate		A	A	
Sodium silicate, aqueous	A	A	A	
Sodium stearate	A	A	A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Sodium sulfate (Glauber's salt)	A	A	A	A
Sodium sulfate (Glauber's salt), aqueous	A	A	A	
Sodium sulfate (Glauber's salt), saturated	A	A	A	
Sodium sulfide	A	A	A	A
Sodium sulfide, aqueous	A	A	A	
Sodium sulfide, saturated	A	A	A	
Sodium sulfite	A	A	A	A
Sodium tetraborate (borax)	A	A	A	C
Sodium thiosulfate (antichlor, fixing salt)	C	A	A	A
Soft soap	A	A	A	
Sovasol 1, 2, 3			A	
Sovasol 73, 74			A	
Soybean oil	A	A	A	A
Spent sulfite liquors			A	
Spermaceti	A	A	A	
Spin bath acids			A	
Spindle oil (mineral oil-based)			A	
Spirit (ethyl alcohol, ethanol)	A	A	A	C
Spruce oil (spruce needle oil)	A	A	A	
Spry			A	A
SR-10 Fuel			A	
SR-6 Fuel			A	
Standard Oil Mobilube GX90-EP Lube			A	
Starch	A	A	A	



**List of chemical resistance**

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Starch sirup	A	A	A	
Starch, aqueous	A	A	A	A
Stauffer 7700			A	
Stauffer grease			A	
Stearic acid (zinc salt)	A	A	A	A
Stearyl alcohol (1-octadecanol)		A	A	
Strontium bromide		A	A	
Strychnine		A	A	
Styrene (styrol)	A	A	A	C
Styrene (vinyl benzene, phenylethene)	A	A	A	C
Succinic acid	C	A	A	
Succinic acid, 50%		A	A	
Succinic acid, saturated		A	A	
Suds	A	A	A	A
Sugar beet juice	A	A	A	A
Sugar cane solution			A	A
Sugar sirup	A	A	A	A
Sulfur	A	A	A	
Sulfur chloride (disulfur dichloride)		A	A	
Sulfur dichloride		A	A	
Sulfur dioxide		A	A	C
Sulfur dioxide, dry			A	C
Sulfur dioxide, liquid		A	A	C
Sulfur dioxide, wet		A	A	C

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Sulfur hexafluoride	A		A	A
Sulfur trioxide		A	A	C
Sulfur, liquid, +60 °C			A	C
Sulfuric acid monohydrate, 97.9-99%		A	A	
Sulfuric acid, 1-6%		A	A	
Sulfuric acid, 10%		A	A	A
Sulfuric acid, 20%		A	A	
Sulfuric acid, 25%			A	
Sulfuric acid, 3-molar			A	
Sulfuric acid, 40%		A	A	
Sulfuric acid, 50%			A	
Sulfuric acid, 60%		A	A	
Sulfuric acid, 80%		A	A	
Sulfuric acid, 95%		A	A	
Sulfuric acid, fuming			A	
Sulfuric acid, fuming (20/25% oleum)		A	A	
Sulfurous acid		A	A	C
Sulfuryl chloride		A	A	
Sunoco # 3661			A	
Sunoco SAE 10			A	
Sunsafe (fire-resistant hydraulic fluid)			A	
Surfactant			A	
Swan Finch EP Lube			A	
Swan Hypoid-90			A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Tallow	A	A	A	
Tanigan extra A, aqueous, +20 °C			A	
Tanigan extra B, aqueous, +20 °C			A	
Tanigan extra C, aqueous, +100 °C			A	
Tanigan extra D, aqueous, +20 °C			A	
Tanigan extra F, aqueous, +20 °C			A	
Tanigan extra U, aqueous, +20 °C			A	
Tannic acid (tannin)	C	A	A	C
Tannin (tannic acid)	C	A	A	C
Tanning extracts, vegetable			A	
Tar	A	A	A	C
Tartaric acid (dihydroxysuccinic acid)	C	A	A	A
Terpineol			A	
Test fuel A (ISO-Fluid A)			A	
Test fuel B (ISO-Fluid B)			A	
Test fuel C (ISO-Fluid C)			A	
Test fuel D (ISO-Fluid D)			A	
Tetrabromoethane (acetylene tetrabromide, TBE)		A	A	
Tetrabromomethane			A	
Tetrabutyltitanate			A	
Tetrachloride			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Tetrachloroethane (acetylene tetrachloride)	A	A	A	
Tetrachloroethylene (perchloroethylene)	C	A	A	
Tetrachloromethane (carbon tetrachloride)	C	A	A	
Tetraethyl lead (lead tetraethyl, TEL)		A	A	
Tetrafluoromethane	A			
Tetrahydrofuran (diethylene oxide, tetramethylene oxide)	C	C	A	C
Tetrahydronaphthalene (tetralin)	A	A	A	
Tetralin (tetrahydronaphthalene)	A	A	A	
Tetramethylammonium hydroxide (tetramine)		A	A	
Tetramethylene chloride (dichlorobutane)			A	
Tetramethylene oxide (tetrahydrofuran)	C	C	A	C
Thiofuran (thiol, thiophene)	C	A	A	
Thioglycolic acid			A	
Thiokol TP 90B (polyester plasticizer)			A	
Thiokol TP 95			A	
Thionyl chloride	A	A	A	
Thiophene (thiofuran, thiol)	C	A	A	
Tidewater Multigear 140, EP Lube			A	
Tidewater Oil-Beedol			A	C
Tin (II) chloride		A	A	

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Tin (IV) chloride		A	A	
Tin chloride, 50%			A	C
Tin chloride, aqueous		A	A	
Titanium tetrachloride		A	A	
Toluene (methylbenzene)	A	A	A	C
Toluene diisocyanate			A	
Train oil				A
Transformer oil	A			
Transformer oil (mineral oil-based)	C	A	A	C
Transmission Fluid Type A			A	C
Triacetin (glycerol triacetate)		A	A	A
Triaryl phosphate			A	
Tributoxyethylphosphate			A	
Tributyl citrate		A		
Tributyl mercaptan		A	A	
Tributyl phosphate (triethyl phosphate)		A	A	
Trichloroacetic acid		A	A	
Trichlorobenzene (trichlorophenol)		A	A	
Trichloroethane (chloroethene, methyl chloroform)	C	A	A	
Trichloroethylene		A	A	C
Trichlorofluoromethane	A			
Trichloromethane (chloroform)		A	A	C
Trichlorophenol (trichlorobenzene)		A	A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Trichlorotrifluoroethane	A	A	A	
Tricresyl phosphate	A		A	A
Triethanolamine (triethylolamide)	A	A	A	
Triethyl phosphate (tributyl phosphate)		A	A	
Triethylamine (TEA)	A	A	A	
Triethylene glycol	A	A	A	A
Trifluoroacetic acid (TFA)		A	A	
Trifluoroethane		A	A	
Trifluorotrichloroethane	A			
Triglycol	A	A		
Triglycol acetate	A			
Triisopropylbenzene			A	
Trilone B, 10%	A			
Trimethylolpropane	A	A	A	
Trioctylphosphate		A	A	
Tripfen (hexachlorobutadiene)	A		A	
Tripolyphosphate			A	
Tripropylene glycol (TPG)	A	A	A	A
Trisodium phosphate	A	A	A	A
Tung oil (China wood oil)			A	
Turbine oil No. 35 (MIL-L-7808A)			A	
Turbine oil, mineral	A	A	A	C
Turbo oil No. 35			A	
Turpentine	A	A	A	C

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Two-stroke (engine) oil	A		A	
Undecyl alcohol	A	A	A	
Univis 40 (hydraulic fluid)			A	
Univolt 35 (mineral oil)			A	
Urea	A	A	A	A
Urea, aqueous	A	A	A	A
Uric acid	A	A	A	
Urine	A	A	A	A
Valerian drops		A	A	
Varnish		A	A	
Vaseline	A		A	A
Vaseline oil	A	A	A	C
Vegetable oil	A	A	A	A
Versilube F-50			A	
Vinegar	A	A	A	A
Vinyl acetate (acetic acid ethenyl ester)		A	A	
Vinyl acetylene			A	C
Vinyl chloride (monochloro- ethylene)		A	A	
Vinylidene chloride (dichloro- ethylene, ethylene dichloride)		A	A	
Viscose spinning solution			A	
Vitamin C		A	A	
Walnut oil			A	
Washing agents			A	
Waste gases, alkaline			A	

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Waste gases, containing carbon dioxide		A	A	A
Waste gases, containing carbon monoxide		A	A	A
Waste gases, containing hydrochloric acid		A	A	
Waste gases, containing hydrogen fluoride		A	A	
Waste gases, containing nitrous gas (nitrogen oxides)		A	A	
Waste gases, containing sulfur dioxide		A	A	
Waste gases, containing sulfur trioxide			A	
Waste gases, containing sulfuric acid		A	A	
Wastewater			A	A
Water glass (potassium silicate)		A	A	A
Water glass (sodium silicate)		A	A	A
Water vapour, +120 °C		A	A	C
Water, distilled	A	A	A	
Water, with carbon dioxide	A	A	A	
Water/Spring water, cold	A	A	A	A
Wax alcohols		A	A	
Waxes			A	
Wax molten	A			
Wemco C			A	
Whey		A	A	
Whisky	A	A	A	A



Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
White liquor		A	A	
White oil		A	A	
White pine oil			A	
White spirit	A		A	
Wine, brandy	A	A	A	A
Wolman salt (wood preservative)			A	A
Wood alcohol (methanol, methyl alcohol)	A	A	A	A
Wood oil	A	A	A	
Wool grease (lanolin)	A	A	A	C
Xenon	A	A	A	A
Xylamon		A	A	C
Xylene (dimethylbenzene)	A	A	A	C
Xylidene		A	A	
Yeast	A	A	A	
Yeast, aqueous			A	A
Zeolites		A	A	
Zinc acetate, aqueous		A	A	
Zinc bromide		A	A	
Zinc carbonate	A	A	A	A
Zinc chloride	A	A	A	A
Zinc chloride, 10%	A	A	A	
Zinc chloride, aqueous	C	A	A	
Zinc nitrate		A	A	
Zinc ointment			A	
Zinc oxide	A	A	A	A

## List of chemical resistance

Fluid Source: Reichelt Chemietechnik <a href="https://www.rct-online.de">https://www.rct-online.de</a>	POM	FEP	PTFE	Silicone
Zinc phosphate	A	A	A	A
Zinc salt (stearic acid)	A	A	A	A
Zinc stearate	A	A	A	
Zinc sulfate	A	A	A	A
Zinc sulfate, 10%	A	A	A	
Zinc sulfate, aqueous		A	A	A

The CHEMICAL PROPERTIES of N-BK7 glass see: [https://www.schott.com/d/advanced\\_optics/c36214d9-13c4-468c-bf40-8d438b89f532/1.30/schott-optical-glass-pocket-catalog-jan-2020-row.pdf](https://www.schott.com/d/advanced_optics/c36214d9-13c4-468c-bf40-8d438b89f532/1.30/schott-optical-glass-pocket-catalog-jan-2020-row.pdf)



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