



Railroad Tank Car

Technical Handbook

Part of SecureTrack NAR Terminator[™] Program

Gasket Selection

Supply Management

Technical Services

Training

Best Practices

Durlon[®] Railroad Tank Car Sealing Solutions[™] Superior Manufacturing • Quality Performance This handbook is a summary of SecureTrack[™], the fluid-sealing program that has been developed by Gasket Resources Inc. [®](GRI) in coordination with Triangle Fluid Controls Ltd. (TFC) with the objective of the elimination of bolted joint related NAR's.

Step One: Gasket Selection

A complete analysis of available gasket materials was conducted and an updated gasket materials specification was completed with the goal to consolidate gasket selection to one or two materials per fleet.

Step Two: Supply Management

Due to the logistics of supply, Triangle Fluid Controls Ltd. formed an alliance that established authorized DURLON[®] distributors/cutters strategically located to ensure product availability, authenticity and technical support. This alliance agreement can service all repair facilities both on site and through contract repair facilities.

Step Three: Technical Services

TFC's technical services department has established a database of information related to the bolted joints found within most tank car fleets.

Step Four: Training

TFC is committed to training on proper bolted flange assembly installation procedures. The training covers basic bolted joint design knowledge and the proper installation procedures to ensure a tight and lasting seal.

Step Five: Best Practices

The "Bolted Joint Assembly Procedure" is a part of this document. This is a detailed reference for all flange assembly procedures.



SecureTrack

Eliminate. Consolidate. Alleviate.

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NAR Terminator by Gasket Resources Incorporated®

www.SecureTrackProgram.com www.DurlonSealingSolutions.com www.TriangleFluid.com

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Style	Composition	Description
8500	Aramid-Inorganic/NBR	Our workhorse material, DURLON [®] 8500, is excellent in steam, fuels, oils, natural gas, vegetable oils, glycols, inert gases, molten sulfur, alcohols, tall oil, plus many more chemicals. A high quality general service gasket material for use in a wide range of tank car applications for the chemical, pulp and paper, food, beverage, refinery, gas and general industries. FIRE TESTED: DURLON [®] 8500 passed a modified API 607 fire test.
7900, 7925, 7950 (79XX)	Aramid-Inorganic/NBR	A general service compressed sheet with NBR rubber binder for mild service OEM & railroad applications in steam, hydrocarbons and refrigerants. An economical alternative when service ranges and applications are not severe.

Anti-Stick Properties: Much effort has gone into improving the anti-stick release agents of all compressed DURLON[®] products. All DURLON[®] compressed gasket materials have passed the MIL-G-24696B Navy Adhesion Test (366°F/48 hrs).

9000/9000N		DURLON [®] 9000/9000N is used extensively in aggressive chemicals in the railroad tank car industry.				
	Pure PTFE resins with inorganic fillers	It has been tested and approved for liquid chlorine, caustics, liquid oxygen, and high purity applications in the pharmaceutical industry.				
		The fillers in DURLON [®] 9000/9000N are engineered shapes, homogeneously blended with pure PTFE resins and do not wick.				
9200W	Pure PTFE resins with barium sulfate filler	Suitable for use in aggressive chemicals including caustics, hydrogen peroxide, sodium hypochlorite, nitric acid, liquors. Applications in the chemical, pharmaceutical and plastics industries include butadiene, hydrofluoric acid, vinyl chloride, methyl methacrylates, and styrene.				
		DURLON [®] 9200W is also used extensively in railroad tank car applications.				

Independent testing has shown the fillers in the DURLON[®] method to be more homogeneously blended than calendered or layered filled PTFE gasket materials, giving DURLON[®] filled PTFE's more consistent physical and mechanical properties without voids, separation and chemical compatibility problems found in the layered construction method.

Typical Physical Properties

DURLON [®] Style	8500	79XX	9000/9000N	9200W
Colour:	Green	7900 – Off-White, 7925 – Green, 7950 - Blue	9000 - Blue 9000N- White	Granite White
Style:	Compressed Sheet	Compressed Sheet	Filled PTFE	Filled PTFE
Composition:	Aramid-Inorganic/NBR	Aramid-Inorganic/NBR	Inorganic/PTFE	Barium Sulfate/PTFE
Fluid Services:	Saturated Steam, Oils, Dilute Acids & Alkalis, Solvents, Fuels, Refrigerants	Steam, Water, Oils, Fuels, Dilute Acids & Alkalis, Refrigerants	Steam, Oils, TiO2, ClO2, Liquid Chlorine ¹ , Acids, Caustics, H2O2, Liquid Oxygen ² , Oleum	Steam, Nitric Acid, TiO2, ClO2, H2O2, Liquors, Sulfur Dioxide, Brown Stock, Phosphoric Acid
Temperature, Range: Continuous, max:	-73 to 371°C (-100 to 700°F) 287°C (548°F)	-73 to 371°C (-100 to 700°F) 400°F (204°C)	-212 to 271°C (-350 to 520°F) 260°C (500°F)	-212 to 271°C (-350 to 520°F) 260°C (500°F)
Pressure Max:	103 bar (1500 psig)	70 bar (1000 psig)	103 bar (1500 psig)	103 bar (1500 psig)
Density, g/cc (lbs/cu. ft):	1.7 (106)	1.7 (106)	2.2 (138)	2.5 (156)
ASTM F36, Compressibility:	8-16%	7-17%	8-16%	8-16%
ASTM F36, Recovery:	50%	40%	40%	35%
ASTM F38, Creep Relaxation:	20%	20%	30%	30%
ASTM F152, Tensile Strength across grain, psi (MPa):	2,000 (13.8)	1,600 (11.0)	2,000 (13.8)	1,920 (13.2)
Fluid Resistance, pH Range (room temperature):	3 to 11	3 to 11	0 to 14	0 to 14
Leakage: DIN 3535	0.03 cc/min	0.05 cc/min	0.01 cc/min	0.01 cc/min
ASTM F104 Line Call-Out:	F712120-A9B3E12K5M6	F712120-A9B3E22K5M5	F452111-A9B5E11K6M6	F452111-A9B5E11K6M5
Notes:	Passed modified API 607 Fire Test		 Pamphlet 95, The Chlorine Institute O2 Certified - BAM Conforms to 21 CFR 177.1550 for food and drug contact 	Conforms to 21 CFR 177.1550 for food and drug contact

Note: ASTM and DIN properties based on 1/16" sheet thickness, except ASTM F38 which is based on 1/32" sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties, but should not be used to establish specification limits nor used alone as the basis of design.

How well do you really know your gaskets?

The Challenge

Do you know what grade of FKM you are using?

FKM is a generic designation for fluoroelastomer; but not a material grade. Not all FKM materials are equivalent.

If your FKM fluoroelastomer costs less . . .

Is your FKM blended with other elastomers to reduce cost? Do you know the percentage of FKM in your product? Was your FKM material properly post-cured?

Compromised composition and/or inadequate post-cure . . . is it *really* worth the risk?

The post-cure procedure for fluoroelastomers is time and temperature dependent and affects chemical resistance,

physical, and mechanical properties of the material. The postcure is extremely important to the performance of your fluoroelastomers. Inadequate post-curing may reduce cost but can lead to premature failure!

The Durlon[®] Solution

Make sure you are getting the right fluoroelastomer your application requires with Genuine Viton[®]. The Durlon[®] brand is your assurance that your gasket is made from 100% Genuine Viton[®] licensed under the Genuine Viton[®] program. Newer Viton[®] grades from DuPont Performance Elastomers, LLC, including those with APA (Advanced Polymer Architecture) technology are available from Triangle Fluid Controls Ltd. and our distributor partners.



Durlon® 100% Genuine Viton® Manway Gaskets

Viton [®] Grade	Principal End Users		Polymer Compositio	n	Weight % Fluorine		
A	General purpose sealing: Auton Aerospace Fuels and Lubricants		Dipolymers of VF2/HFP, bisphenol cure		66%		
в				Chemical Process Plants, Railroad Tank Cars and Tank Trucks, Power Utility Seals and Gaskets			
GF-S	GF-S has slightly higher fluoring GF, which gives improved fluid shown improved compression s to the older technology GF poly including low-temperature perfo	resistance. GF-S has set and fluid resistance mer. Other properties,	Terpolymer of VF2/HFP/TFE PLUS Advanced Polymer Architecture technology AND new proprietary cure site monomers (CSM), peroxide cure.		70%		
		Viton® Pro	perties				
Compound	No./Style (Colour)	Α		В	GF-S		
Durometer,	Shore A hardness	75		75	75		
Low Temper	rature Flexibility TR-10, °C (°F)	-17 (1)	-	13 (9)	-6 (21)		
Maximum T	emperature °C (°F)	201 (400)	201 (400)		201 (400)		
Viton (Elasto	omer), Torques (ft-lbs)	6-Bol	t	8-Bolt			
	7/8" A449	100	75				
_	1" A307	115		90			

(Based on 1500 psi compression and eyeboits lubricated with a never seize type lubricant. See tightening procedure on page 4 of the Railroad Technical Handbook.) Wton' is a registered trademark of DuPont Performance Elastomers, LLC. TFC-RRTH-PG2. REV 02/201

Most Bolted Flange Issues Are Usually Installation Related

Uneven loading of flanges Gasket load too low Bolt strength too low **Torque** loss Bolt Relaxation/Stretch (approximately 10% in first 24 hours) Gasket creep Vibration in the system Thermal cycling Elastic interaction during bolt tightening Improper gasket installation procedures

TFC Recommendations

Bolt/nut lubrication- lubrication reduces low gasket compression caused by bolt friction. Through hardened steel washers (ASTM F-436 or similar) also reduce bolt friction. Belleville spring washers – Create a live load to help reduce the effect of bolt and gasket relaxation. RETORQUING within 4 to 24 hrs also helps reduce the effect of bolt and gasket relaxation.

Torque loss is inherent in any bolted joint. The combined effects of bolt relaxation. (can be up to 10% during the first 24 hours after installation), gasket creep, vibration in the system, thermal expansion and elastic interaction during bolt tightening contribute to torque loss. When torque loss reaches an extreme, the internal pressure exceeds the compressive force holding the gasket in place and a leak or blow-out occurs.

A key to reducing these effects is proper gasket installation. By bringing the flanges together slowly and parallel when installing a new gasket and taking a minimum of four bolt tightening passes, following the correct bolt tightening sequence or pattern, there is a payoff in reduced NAR's and maintenance costs while increasing safety.

Even when the installation is ideal, where the bolt stress is uniformly applied to each bolt, and the gasket is properly compressed, problems can still arise. Inherently with time, loosening can occur due to the factors already mentioned. If other factors such as cycling, thermal upsets, or vibration are present, periodic rechecking of the fastener torque might be necessary.

For problem areas, high temperature applications, or where there is temperature cycling, or where a flange torque cannot be checked, conical spring washers have been found to be very helpful as an aid to torgue retention. They act as a spring and help lessen the effects of torque loss.

Reducing Gasket Failures:

PROPER GASKET INSTALLATION PRACTICES Use the correct components, i.e. bolts/nuts and washers Lubricate bolts & nut facings Bring the flanges together slowly and parallel

- 1. Multiple passes with increasing torque
- 2. Each pass following proper tightening sequence
- Use the thinnest gasket possible

Periodic checking of fastener torque

Use the right method of bolt up for the job

Order of efficiency from least to greatest:

- 1. Wrench and cheater bar or sledge hammer
- 2. Air impact gun
- 3. Torque wrench
- 4. Hydraulic torque wrench
- 5. Hydraulic stud tensioners

TFC/DURLON® - Gasket Installation

DURLON[®] GASKETING BOLT TIGHTENING WORK SHEET

Location/Identification:	Nominal Bolt Size:
Gasket Contact Surface Finish on Flange: _	Lubricant Used:
(Initial each step in space provided below	N.)
1.Visually examine and clean flanges,	bolts, nuts and washers. Replace components if necessary.
2. Install new gasket. DO NOT USE M	IULTIPLE GASKETS.
3. Lubricate bolts, nuts, AND flange	surface AROUND BOLT HOLES.
4. Number bolts in cross-pattern seque	ence according to the appropriate sketch below.
	all around until snug. NEXT, using a torque wrench PRE-
	rque using the cross-pattern tightening sequence below.
6. <u>Check gap for uniformity</u> .	
	ghtening sequence in the sketch below to hand tighten, pre-tighten ghtening sequence in the sketch below constitutes a "Round".
Target Torque: ft-lbs (from tor	1
	ITEN, then TIGHTEN, bolts in stages using cross pattern sequence.
Pre-Tighten - Hand Tighten, then 1/4 Tu Round 1 - Tighten to ft-lbs (30)	urn with hand wrench using a cross pattern tightening sequence.
Round 1 - Fighter to	
Round 3 - Tighten to ft-lbs (10	
	etween each of these rounds, measured at every other bolt. If the
gap is not reasonably uniform around the bolt tightening before proceeding.	he circumference, make the appropriate adjustments by selective
·	No. 1, tighten in a ROTATIONAL, clockwise tightening sequence at
until no further nut rotation occurs at 10	d 3 above), for at least one complete round. If necessary, continue 00% of the Final Torque value for any nut.
	after 4 to 24 hours. A large percentage of the short-term bolt preload er initial tightening with most occurring after four to five hours. This
Round recovers this loss.	er mittal tightening with most occurring after four to five hours. This
TIGHTENING METHOD USED:	
Hand Wrench Manu	al Torque Wrench Hydraulic Torque Wrench
Impact Wrench Other	
Joint Assembler: * For questions contact TFC Technical Services at (866) 537-1133	Date: 3, or tech@trianglefluid.com.

DURLON®	GASKET	ING		
NONPRESSURE CAR HIN	IGED & E	BOLTED MAI	NWAY	
EYEBOLT TIGHTE	NING PF	ROCEDURE		
CUSTOMER:		TANK C	AR NO	
LOCATION:		PART NO.		
AAR MANWAY STYLE:	GASKET DIME	ENSIONS:		sket Style/Size Chart)
GASKET MATERIAL: <u>DURLON® 9000, DURLON® 9600</u> (Durlon® materials are "Hard" manway g		8500		
EYEBOLT GRADE: <u>A307, A449, A193-B7, A193-B8</u> (Circle one)	/B8M Class 2	EYEBO	OLT DIAMET	ER:
LUBRICATION USED:		ASSEM	BLY TORQUE	::
	<u>.</u>			(From chart below)
	}	Eyebolts		Eyebolts
ASSEMBLY SEQUENCE Assembly requires a minimum of 5 steps:	Handtigh	t then 1/4 turn	Handtigh	t then 1/4 turn
Assembly requires a minimum of 5 steps.	75 ft-lbs	1st Sequence	65 ft-lbs	1st Sequence

Pretightening. Hand tighten lubricated eyebolts then 1/4 turn with a hand wrench.

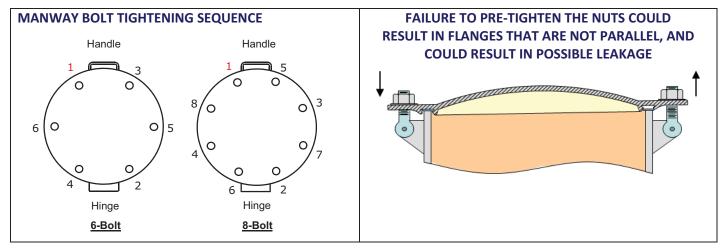
Three star pattern tightening sequences in either a 6-bolt or 8-bolt pattern, increasing the torque in each sequence per the chart on the right. A rotational pass at full torque to equalize the stress on each eyebolt. Optional. Retorque after 4-24 hrs.

Handtigh	t then 1/4 turn	Handtight then 1/4 turn					
75 ft-lbs	1st Sequence	65 ft-lbs	1st Sequence				
145 ft-lbs	2nd Sequence	125 ft-lbs	2nd Sequence				
245 ft-lbs	3rd Sequence	210 ft-lbs	3rd Sequence				
245 ft-lbs	Rotational	210 ft-lbs Rotational					
Retorque after 4 to 24 hrs. A large percentage of the short-term bolt							

Retorque after 4 to 24 hrs. A large percentage of the short-term bolt preload loss occurs within 24 hours after initial tightening with most occurring after 4 to 5 hours. This Round recovers this loss.

Date:

WARNING: Bolts <u>must</u> be tightened in the cross-pattern tightening sequence, employing the incremental rounds of tightening as prescribed in this procedure. If this is not done, the flanges may become out of parallel relative to each other, an indicator of non-uniform gasket loading and potential joint leakage.



Joint Assembler:

* For questions contact TFC Technical Services at (866) 537-1133, or tech@trianglefluid.com.

DURLON® Gaskets; Typical Tank car Torque Values¹

General Purpose Cars¹

Common and	Matarial	04.44	Gasket Material/Dimensions			Fasteners/	Torque (ft-lbs)	
Component	Material	Style	Thk.	OD	ID	Grade	Dry	Lubricated
		AAR-1	1/8"	21-5/8"	19-1/2"	1"/A307	250	210
	Durlon [®] 9000	AAR-1	1/8"	21-5/8"	19-1/2"	7/8"/Gr 1045	215	185
	(Hard Dimensions)	UTC-1	1/8"	21-1/2"	19-7/16"	1"/A307	250	210
Manway Cover	Dimensions)	TRN-1	1/8"	21-11/16"	19-5/8"	7/8"/A449	290 ²	245 ²
	Viton [®] GF-S	AAR-1	1/4"	21-11/16"	19-1/2"	1"/A307	85	70
	(Elastomeric	UTC-1	1/8"	21-1/2"	19-7/16"	1"/A307	85	70
	Dimensions)	TRN-1	1/4"	21-1/2"	19-1/4"	7/8"/A449	90	75
		-	1/8"	17-1/8"	15"	1"/A193-B7	480	410
Cover Flange	Durlon [®] 9000	-	1/8"	17"	16"	3/4"/J429 Gr 5	200	170
		-	1/8"	16-1/8"	14"	1"/A193-B7	480	410
	Durlon [®] 9000	-	1/8"	4-1/8"	2-3/4"	5/8"/A193-B7	120	100
Air / Liguid Valves	Durlon [®] 9200W	-	1/8"	4-1/8"	2-3/4"	5/8"/A193-B8M	55	45
All / Liquid valves	Durlon [®] 9000	-	1/8"	5-3/8"	4-1/8"	5/8"/A193-B7	133	113
	Durlon [®] 9200W	-	1/8"	5-3/8"	4-1/8"	5/8"/A193-B8M	55	45
Course Davies	Durlon [®] 9000	-	1/8"	3-3/8"	2-1/2"	3/4"/A193-B7	90	80
Gauge Device	Durion [®] 9000	T/G	1/8"	2-1/4"	1-1/2"	5/8"/A193-B7	90 ²	75 ²
Cofety Value	Durlon [®] 9000		1/8"	5-3/8"	4-1/8"	3/4"/A193-B7	155	130
Safety Valve	Dunon [®] 9000	-	1/8"	5-1/4"	3-5/8"	3/4"/J429 Gr 5	165	140
	Viton [®] GF-S	-	1/8"	7-1/8"	4-1/2"	5/8"/A307	60	50
Bottom Outlet	Durlan [®] 0000	-	1/8"	8-1/2"	7-1/2"	3/4"/A193-B7	160	135
	Durlon [®] 9000	T/G	1/8"	8-7/16"	7-9/16"	3/4"/A574	230	200

¹ Number of bolts, bolt grade and lubrication can vary. A "never seize" type lubricant used for above examples. ² Torque revised April/2014

Pressure Cars

		Gas	ket Material/Di	mensions	Fas	teners	Torque (ft-lbs) @ 50% yield		
Component	Material	Thk.	OD	ID	Size	Grade	Never-seize type lube	Halocarbon, or Copper lube	
18" Manway		1/8"	20-1/4"	19-1/4"	1-1/8"	A320-L7	610	475	
20" Manway	Durlon [®] 9000	1/8"	22-1/4"	21-1/4"	1-1/8"	A320-L7	610	475	
22" Manway		1/8"	24-1/4"	23-1/4"	1-1/8"	A320-L7	610	475	
Angle Valve / Gauging		1/8"	2-1/4"	1-1/2"	5/8"	A320-L7	75/82 (C)	60/66 (C)	
Device (Note: (C) if	Durlon [®] 9000	1/8"	2-1/4"	1-1/2"	3/4"	A320-L7	168/185 (C)	130/144 (C)	
using a Crow's Foot)		1/8"	4"	3-1/4"	3/4"	A320-L7	168/185 (C)	130/144 (C)	
PRD/Safety		1/8"	2-1/4"	1-1/2"	3/4"	A320-L7	168/185 (C)	130/144 (C)	
(Note: (C) if using a	Durlon [®] 9000	1/8"	4-3/4"	4"	3/4"	A320-L7	168/185 (C)	130/144 (C)	
Crow's Foot)		1/8"	6-3/4"	6"	7/8"	A320-L7	273/300 (C)	212/233 (C)	

* Special configuration. (C) designates a torque using a crow's foot wrench.

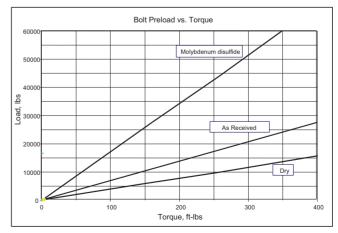
For torque worksheet by car set, contact TFC Technical Services at (866) 537-1133, or tech@trianglefluid.com.

The Effect of Bolt Lubrication5222

Bolt lubrication greatly affects the torque values used when installing gaskets. To achieve the same gasket compression, a much higher torque value is required for a dry bolt versus using an effective lubricant such as molybdenum disulfide.

In a dry bolt up, or where an inefficient lubricant is used, the effort used in tightening is overcome by the frictional forces between the bolts and nuts and to a greater extent between the nuts and nut facings.

This can result in a lower gasket load and inadequate stress on the bolts, which can result in torque loss and eventual leakage in service.



Viton® is a registered trademark of DuPont Performance Elastomers LLC.

The following information is a general guide only for the selection of a suitable gasket material as there are unlimited combinations of fluid, pressure and temperature conditions

FLUID	8500 79XX	9000	9200W	
Acetaldehyde	С	Α	Α	Amr
Acetamide	А	А	А	Amr
Acetic Acid, 37%	A	А	А	(UT Amr
Acetic Acid, Glacial	C	A	A	Amr
Acetic Anhydride	C	A	A	Amr
Acetone	С	А	А	Amr
Acetonitrile	NS	Α	Α	Amr
Acetophenone	-	Α	Α	Amr
Acetyl Chloride	-	Α	Α	Amr
Acetyl Tributyl Citrate	-	А	А	Amr
Acrol Flex Polyol Mixture	-	Α	Α	Amı
Acrolein (acrylaldehyde)	С	Α	Α	Amı
Acrylamide	-	Α	Α	Am
Acrylic Acid	NS	Α	Α	Amr
Acrylic Emulsion	-	Α	A	Amr
Acrylic Resin Solution	-	Α	Α	Amr
Acryloid Oil Additive	-	A	A	Amı
Acryloid Oil Additive (in flammable solvent)	-	А	А	Amr
Acryloid Oil Additive (in nonflammable solvent)	-	А	А	Amr
Acrylonitrile	NS	Α	Α	Amy
Adipic Acid Solution	C	A	A	Amy
Alcohol Bottoms	-	A	A	Amy
Alcohol NOS (Not Otherwise Specified)	-	A	A	Am
Alcohol-Beverage	С	А	А	Am
Alkyd Resin	А	А	Α	Amy
Alkyl Benzene	NS	Α	А	Amy
Alkyl Benzene Sulfonate (or Sulfonic				
Acid)	NS	A	A	Amy
Alkyl Phenol Ethoxylate	-	A	A	Amy
Alkylamine	-	A	A	Anil
Alkylbenzene, C10-C16	С	A	A	Anir
Alkylsulfonic Acid	NS	A	A	Anir
Allyl Alcohol	A	A	Α	Anti
Allyl Bromide (3-Bromopropene)	-	А	А	Anit Pero
Allyl Chloride	-	Α	Α	Argo
Allyl Trichlorosilane	-	A	A	Aro
Alpha Methyl Styrene	NS	Α	A	Aro
Alum	A	A	A	Arse
Allumina Trihydrate Slurry (Aluminum Hydroxide)	А	А	А	Asp
Aluminum Ammonium Sulfate (Ammonium Alum)	А	А	А	Atra Isop
Aluminum Chloride	Α	Α	Α	Avia
Aluminum Chloride Solution	А	А	А	Bari
Aluminum Fluoride Solution	NS	-	Α	Bas
Aluminum Sulfate (Alum)	А	А	А	Ben
Aluminum Sulfate, Food Grade	Α	Α	Α	Ben
Aluminum Triethyl (Triethylaluminum)	-	Α	Α	Ben
Aluminum Trimethyl	-	А	А	Ben
(Trimethylaluminum)		~	^	Acio
Amines (Mixed)	NS	Α	A	Ben
para-Aminodiphenylamine	NS	Α	Α	Ben
Aminoethylethanol Amine (Hydroxyethylethylenediamine)	-	А	А	Ben
(Tryuroxyeuryieuryieneulamine)	-	۸	A	Ben
Aminoethylpiperazine	-	Α	A	DOI
	-	A	A	Ben

			NS -
FLUID	8500 79XX	9000	9200W
Ammonia Gas, <150 F	А	А	А
Ammonia Contaminated with Benzene (UTLX 83593, ACFX 99228, 83789)	-	А	А
Ammonia, Liquid, Anhydrous	А	Α	Α
Ammonia-Aqua (Ammonium Hydroxide)	Α	A	Α
Ammonium Bisulfide	A	A	A
Ammonium Carbonate Solution	A	A	A
Ammonium Hydroxide	A	A	A
Ammonium Nitrate	A	A	A
Ammonium Nitrate Solution	A	A	A
Ammonium Perchlorate	-	A	A
Ammonium Phosphate Solution	A	Α	A
Ammonium Sulfamate Solution	-	A	A
Ammonium Sulfate Solution	A	A	A
Ammonium Sulfide	A	A	A
Ammonium Sulfide Solution	A	A	A
Ammonium Sulfite Solution Ammonium Thiocyanate	A C	A	A
Ammonium Thiosufate	A	A	A
Ammonium Thiosulfate Solution	А	А	A
Amyl Acetate (Banana Oil; Pear Oil)	NS	A	Α
Amyl Chloride (1-Chloropentane)	NS	Α	A
Amyl Mercaptan	NS	A	A
Amyl Nitrate	NS	A	A
Amyl Nitrite	NS	А	A
Amyl Phenol	NS	А	А
Amyl Trichlorosilane	NS	Α	Α
Amylene	NS	А	А
Amylene (1-Pentene)	NS	Α	Α
Aniline (Aminobenzene)	NS	Α	Α
Animal Feed Solution	Α	Α	Α
Animal Oils (Tallow)	Α	Α	Α
Anthraquinone	NS	A	A
Anitmony Pentachloride (Anitmony Perchloride)	NS	А	А
Argon	Α	Α	Α
Arochlor (Polychlorinated Biphenyl; PCB)	NS	Α	Α
Aromatic Concentrate	-	Α	Α
Arsenic Acid (Orthoarsenic Acid)	A	Α	A
Asphalt	А	А	А
Atrazine (2-Chloro-4-Ethylamino-6- Isopropylamino-s-Triazine)	NS	А	А
Aviation Gasoline 100 LL	А	А	А
Barium Chlorate Solution	А	А	А
Base Oil	A	А	Α
Benzaldehyde (Benzoic Aldehyde)	NS	А	А
Benzene	NS	A	Α
Benzenephosphorous Dichloride	NS	Α	A
Benezenesulfonic Acid (Phenylsulfonic Acid)	NS	А	А
Benzoic Acid	NS	Α	A
Benzophenone (Cyasorb)	NS	Α	A
Benzoyl Chloride	NS	А	A
Benzyl Alcohol (Alpha-Hydroxytoluene)	NS	A	A
Benzyl Chloride (Alpha-Chlorotoluene)	NS	A	A
Benzyl Fatty Quaternary Ammonium Chloride	NS	А	A

- A Acceptable
- C Caution Depends on Conditions
 - S Not Suitable

FLUID	8500 79XX	9000	9200W
Biphenyl (Diphenyl)	NS	Α	Α
Bisphenol (4,4'-Isopropylidenediphenol)	NS	A	Α
Boric Acid Solution	Α	Α	Α
Boron Trichloride (Boron Chloride)	-	Α	Α
Boron Trifluoride (Boron Fluoride)	-	Α	A
Brake Fluid (Hydraulic Fluid Petroleum- Based)	А	А	А
Brine	А	Α	A
Bromine	NS	A	A
Bromochloromethane (Halon 1011) Bromochloropropane (Trimethlyene	NS NS	A	A
Chlorobromide) Bunker C Oil			
Bunker C Oli Bunker Oil	A	A	A
Butadiene (1,3 Butadiene)	NS	A	A
Butane	A	A	A
Butanediol	C	A	A
Butanol	A	A	A
Butanol Acid	NS	Α	Α
Butene (Butylene)	А	А	А
Butyl Acetate (n-; sec-; tert- Butyl Acetate)	NS	А	А
Butyl Acrylate (n-Butyl Acrylate)	NS	Α	Α
Butyl Alcohol (1-Butanol)	Α	Α	Α
Butyl Amine	NS	Α	Α
Butyl Benzyl Phthalate (BBP)	NS	Α	Α
Butyl Carbitol (Diethylene Glycol Monobutyl Ether)	NS	А	А
Butyl Cellosolve (Ethylene Glycol Monobutyl Ether)	NS	А	А
Butyl Chloride (Chlorobutane)	NS	Α	Α
2,4-D, Butyl Ester	NS	А	А
Butyl Ether (n-Dibutyl Ether)	NS	Α	A
Butyl Glycol	С	Α	Α
Butyl Lactate (n-Butyl Lactate)	NS	A	A
Butyl Lithium (n-Butyllithium)	NS	A	A
Butyl Mercaptan (Butanethiol) Butyl Methacrylate	NS NS	A	A
Butyl Oleate	NS	Α	A
Butyl Phenol (o-sec-Butyphenol)	С	A	Α
Butyl Propionate (n-Butyl Propionate)	NS	A	A
Carbon Black Oil Carbon Black	A	A	A
Carbon Dioxide	A	A	A
Carbon Disulfide (Carbon Bisulfide)	A	A	A
Carbon Tetrachloride (Tetrachloromethane)	А	А	А
Carbowax Polyethylene Glycol 400	С	Α	Α
Carboxybenzene (Benzoic Acid Solution)	NS	А	A
Castor Oil	A	A	A
Caustic Soda	С	A	A
50% Caustic	С	A	A
Cayenne Pepper Mash	A	A	A
Cellosolve Acetate Cetyl Alcohol (1-Hexadecanol)	NS NS	A	A
Chloral (Trichloroacetaldehyde)	-	A	A
Chloral Hydrate	-	A	A
Chlordane	NS	A	A
	NO		~

FLUID	8500 79XX	9000	9200W
Chlorinated Paraffin	-	А	A
Chlorinated Phosphate Ester	NS	A	A
Chlorine	NS	Α	Α
Chloroacetic Acid	-	Α	Α
Chloroacetyl Chloride	-	Α	Α
Chloroaniline (o-,p-,Aminochlorobenzene)	-	Α	Α
Chlorobenzaldehyde	NS	А	А
Chlorobenzene (Monochlorobenzene)	NS	Α	Α
Chlorobenzenethiol (p- Chlorothiophenol)	NS	А	А
Chlorobenzotrifluoride	NS	A	А
Chlorodifluoroethane	NS	А	А
Chlorodifluoromethane	NS	Α	Α
Chloroform (Trichloromethane)	NS	A	A
Chloroformate - see Poly Oxybutylene Chloroformate	NS	A	A
Chloro-IPC (Isopopyl-n-(3-	NS	А	А
Chlorophenyl) Carbimate) Chloronaphthalene	NC	۸	A
Chloronitrobenzene	NS	A	A
(Nitrochlorobenzene)	NS	Α	A
Chlorophenyl Isocyanate (p- Chlorophenyl Isocyanate	NS	А	А
Chloropicrin (Trichloronitromethane)	NS	Α	A
Chlorosulfonic Acid (Sulfuric	NS	А	А
Chlorohydrin)	_		
Chlorotoluene	NS	A	A
Chocolate	A _	A	A
Choline Chloride	- NS	- A	A
Chrome Plating Solutions Chromic Acid	NS	A	A
Citric Acid	A	A	A
Citronella (Citronella Oil)	A	A	A
Clay Slurry	A	A	A
Coal Tar	A	A	A
Coal Tar Light Oil, Ashland	A	A	A
Coal Tar Oil	A	A	A
Coal Tar Pitch	A	A	Α
Coconut Fatty Alcohol	A	A	A
Coconut Oil	A	A	A
Cod Liver Oil	A	A	A
Copper (II) Sulphate Solution	A	A	A
Copper Chloride Solution	A	A	A
Corper Chionde Solution	A	A	A
Corn Oil	A	A	A
Corn Syrup	A	A	A
Cotton Seed Oil	А	A	А
Creosote	A	A	A
meta-Cresol	NS	A	A
para-Cresol	NS	A	A
Cresol (Cresylic Acid)	NS	Α	Α
tert-Butyl-m-Cresol	NS	A	A
meta-Cresylic Acid	NS	A	A
Cresyl Diphenyl Phosphate	NS	Α	Α
Cresylic Acid	NS	Α	Α
Crotonaldehyde (2-Butenal)	NS	Α	Α
Crude Methyl Propanediol	NS	Α	Α
Crude Oil	А	А	А
Crude Sulfate Turpentine	NS	А	А
Crude Vegetable Oil (See Vegetable Oil)	A	A	Α
Cumene (Isopropylbenzene)	NS	A	A
para-Cumylphenol	NS	A	A
Cyclohexane (Hexamethylene)	A	A	A
Cyclohexanol (Hexahydrophenol)	A	A	A
Cyclohexanone (Pimelic Ketone;			
Ketohexamethylene)	NS	A	A
Cyclohexene (1,2,3,4-Tetrahydrobenzene)	С	A	A

FLUID	8500 79XX	9000	9200W
Cyclohexylamine (Hexahydroaniline)	NS	A	A
cyclopentadiene	NS	А	А
cyclopentane (Pentamethylene)	С	Α	A
Cyclopropane Carbonitrile	NS	Α	A
Decanol (Decyl Alcohol)	A	A	A
Detergents	A	A	A
Dextrose	A	А	A
Diacetone Alcohol	NS	Α	A
Diacid Chloride (IsoPhthaloyl Chloride)	NS	Α	А
Diallylamine (di-2-Propenylamine)	NS	А	А
Diaminodiphenylmethane (4,4- Methylenedianiline)	NS	А	А
Diammoniumphosphate Solution	Α	Α	А
Diamylamine (Di-n-Pentylamine)	NS	Α	A
Diamylphenol (1-Hydroxy-2,4- Diamylbenzene)	NS	А	A
Diamylphthalate	NS	А	А
Diazinon	NS	Α	A
Dibenzyl Sebacate	NS	А	А
Dibromochloropropane (DBCP)	NS	А	А
Dibutyl Fumarate	NS	Α	Α
Dibutyl Maleate (DBM)	NS	А	А
Dibutyl Phthalate	NS	Α	A
Dibutyl Sebacate	NS	A	A
Dibutylamine	NS	A	A
Dibutylcresol	NS	A	A
Dibutyltin Dilaurate	NS	A	A
Dicapryl Phthalate (DCP) Dichloroacetaldehyde	NS NS	A	A
Dichloroaniline	NS	A	A
Ortho-Dichlorobenzene	NS	A	A
Para-dichlorobenzene	NS	A	A
Dichlorobenzene (Para- or Ortho- Dichlorobenzene)	NS	A	A
Dichlorobenzene Mix	NS	А	A
Dichlorobutane (Tetramethylene Dichloride; DCB)	NS	А	А
Dichlorodifluoromethane (R-12)	NS	Α	A
Dichloroethylene (Dichloroacetylene)	NS	Α	A
Dichloromethyl Ether	NS	A	A
Dichloromonofluoromethane (R-21)	NS	Α	A
Dichlorophenol	NS	A	A
2,4-D (2,4-Dichlorophenoxyacetic Acid) Dichloropropane	NS NS	A	A
Dichloropropionic Acid (Dalapon		A	A
Herbicide) Dichlorotetrafluoroethane (R-114)	NS NS	A	A
Dicyclohexylamine	NS	A	A
Dicyclopentadiene	NS	Α	Α
Dicyclopentadiene 75% (DCPD)	NS	A	A
Diesel Fuel (Fuel Oil #2)	A	A	A
Diethanolamine Diethyl	NS NS	A	A
Diethyl Carbonate	NS	A	A
Diethyl Formamide	NS	A	A
Diethyl Phosphite		A	A
Diethyl Phosphorochloridothionate	NS		A
	NS NS	А	~
(ETHYL PCT) Diethyl Phthalate (DEP)		A A	A
(ETHYL PCT) Diethyl Phthalate (DEP)	NS NS	A	А
(ETHYL PCT) Diethyl Phthalate (DEP) Diethyl Sulfate	NS NS NS	A	A
(ETHYL PCT) Diethyl Phthalate (DEP) Diethyl Sulfate Diethyl Sulfide	NS NS NS NS	A A A	A A A
(ETHYL PCT) Diethyl Phthalate (DEP) Diethyl Sulfate Diethyl Sulfide Diethylaluminum Chloride (DEAC)	NS NS NS	A A A A	A A A A
(ETHYL PCT) Diethyl Phthalate (DEP) Diethyl Sulfate Diethyl Sulfide	NS NS NS C	A A A	A A A
(ETHYL PCT) Diethyl Phthalate (DEP) Diethyl Sulfate Diethyl Sulfide Diethylaluminum Chloride (DEAC) Diethylamine	NS NS NS C NS	A A A A A	A A A A A

			<u> </u>
FLUID	8500 79XX	9000	9200W
Diethylene Glycol Monoethyl Ether	А	Α	A
Diethylene Glycol Monoethyl Ether Acetate	А	А	А
Diethylene Glycol Monomethyl Ether	А	Α	Α
Diethylene Glycol Monopropyl Ether	Α	Α	Α
Diethylenetriamine	NS	Α	Α
Diethylenetriamine Pentanoic Acid	NS	Α	A
Diethylethanolamine	NS	А	А
(Diethylaminoethanol) Diethylketone (Metacetone, Propione)	NS	A	Α
Difluoroethane (Ethylidene Fluoride)	NS	A	A
Diisobutyl Carbinol (2,6-Dimethyl-4-	NS	A	A
Heptanol)	NS		
Diisobutyl Ketone	-	A	A
Diisobutyl Phenol	NS	A	A
Diisobutyl Phthalate	NS	A	A
Diisobutylene	A	A	A
Diisodecyl Adipate	NS	A	A
Diisodecyl Phthalate	NS	A	A
Diisooctyl Azelate (DIOZ)	NS	Α	Α
Diisooctyl Phthalate	NS	А	А
Diisopropanolamine	NS	A	A
Diisopropyl Ether	А	А	А
Diisopropylamine	NS	Α	A
Dilauryl-3,3'-Thiodipropionate	С	Α	A
Dimer Acid	-	A	A
n,n-Dimethyl Acetamide (DMAC) n,n-Dimethyl Aniline	NS NS	A	A
Dimethyl Ether (Methyl Ether)	NS	A	A
Dimethyl Ethyl Ammonium	-	A	A
Dimethyl Formamide	NS	A	A
o,o-Dimethyl Phosphorochloridothioate	-	A	A
Dimethyl Phthalate	NS	Α	Α
Dimethyl Sebacate	NS	А	А
Dimethyl Sulfate (Methyl Sulfate)	А	Α	Α
Dimethyl Sulfide (Methyl Sulfide)	NS	А	А
Dimethyl Sulfoxide (DMSO)	NS	Α	Α
Dimethyl Terephthalate	NS	Α	Α
Dimethylamine, Anhydrous (DMA)	NS	Α	Α
Dimethylamine, Aqueous	NS	Α	Α
Dimethylaminopropylamine	NS	Α	A
Dimethylbenzene	NS	A	A
Dimethyldichlorosilane (Dichlorodimethylsilane)	NS	А	А
Dimethylethanolamine (2- Dimethylaminoethanol)	NS	А	А
n,n-Dimethylethanolamine (DMEA)	NS	Α	Α
Dimethylformamide (n, n- Dimethylformamide, DMF)	NS	А	А
Dimethylhexane	NS	Α	А
Dimethylhydrazine (UDMH)	NS	A	A
Dimethylhydroxylamine	NS	A	A
Dimethylol Propionic Acid	NS	Α	Α
Dinitrobenzene (o-;m-;p-Dinitrobenzene)	NS	Α	Α
Dinitrochlorobenzene	NS	Α	A
Dinitrochlorobenzotrifluoride	NS	A	A
Dinitrophenol (2, 4-Dinitrophenol) Dinitrotoluene (2, 4-; 3, 4-; 3, 5-	NS	A	A
Dinitrotoluene) Dioctyl Adipate (Di{2-Ethylhexyl}	NS	A	A
Adipate)	NS	A	A
Dioctyl Azelate (Di{2-Ethylhexyl} Azelate)	NS	A	A
Dioctyl Maleate	NS	A	A
Dioctyl Phthalate Dioctyl Sebacate	NS NS	A	A
Diociyi Sebacate Dioxane (Diethylene Ether)	NS	A	A
Dipentene (Cinene)	A	A	A
Diphenyl	NS	A	A

FLUID	8500 79XX	9000	9200W
Diphenyl Ether	NS	Α	Α
Diphenyl Oxide	NS	Α	A
Diphenylamine (n-Phenylaniline) (DPA)	NS	А	А
Diphenyldichlorosilane	NS	А	А
n-Dipropylamine	NS	Α	Α
Dipropylene Glyco Monomethyl Ether	Α	Α	A
Dipropylene Glycol (2,2'-	А	А	А
Dihydroxydodipropylether) Dipropylene Glycol Dibenzoate	A	A	Α
Disodium EDTA Solutions	A	A	A
Disodium Iminodiacetate	С	Α	А
Disodium Phosphage (Sodium	А	А	Α
Phosphate, Dibasic)	~		
Disulfide Oil Ditertiary Amyl (Diamyl) Phenol	- NS	A	A
Ditertiary Butyl Phenol	NS	A	A
Ditridecyl Phthalate (Plasticizer)	NS	Α	Α
Ditridecylphthalate (DTDP) (Jayflex)	NS	А	А
Divinylbenzene (Vinylstyrene)	NS	A	A
Dodecanol (Lauryl Alcohol)	A	A	A
	NS		
Dodecyl Benzene Sulfonate	NS.	A	A
Dodecyl Mercaptan (DDM)	-	A	A
Dodecylaniline	NS	A	A
Dodecylbenzene Dodecylbenzenesulfonic Acid (DDBSA)	NS NS	A	A
Dodecylenzenesulionic Acid (DDBSA) Dodecyl-Pentadecyl Methacrylate UDM	NS	A	A
Dodecylphenol	NS	A	A
Dodecyltrichlorosilane	NS	A	A
Dowtherm-A	NS	A	A
Dowtherm-E	NS	Α	Α
Drilling Mud	А	А	А
·	A	A	
Emulsifiers Epichlorohydrin (Chloropropylene			A
Oxide)	NS	Α	A
Ethane	А	Α	А
Ethanol	А	А	Α
Ethanolamine (Monoethanolamine, 2-	NO		
Aminoethanol)	NS	A	A
Ethoxylated Alcohol	NS	Α	A
Ethoxylated Fatty Alcohols	NS	A	A
Ethyl 3-ethoxypropionate	NS	A	A
Ethyl Acetaceastata	NS	A	A
Ethyl Acetoacetate Ethyl Acrylate	NS NS	A	A
Ethyl Alcohol (Ethanol, Grain Alcohol)	A	A	A
Ethyl Amyl Ketone (EAK, 5-Methyl-3-			
Heptanone)	NS	A	A
Ethyl Bromide (Bromoethane)	NS	Α	Α
Ethyl Butanol (2-Ethylbutyl Alcohol)	Α	Α	A
Ethyl Butyl Ketone (3-Heptanone)	NS	A	A
Ethyl Chloride	NS	A	A
Ethyl Dichlorosilane (Dichloroethylarsine) Ethyl Dimethyl Propylamine	NS NS	A	A
Ethyl Ether	NS	A	A
Ethyl Formate	NS	A	A
Ethyl Hexaldehyde (2-Ethylhexanal)	NS	A	A
Ethyl Hexanol	А	Α	Α
Ethyl Hexoic Acid	NS	Α	A
Ethyl Hitec 436 (Same as Petroleum	А	А	А
Oil Additives)			
Ethyl Isopropyl Ketone Ethyl Mercaptan (Ethanethiol)	NS NS	A	A
Ethyl Mercaptan (Ethanethiol) Ethyl Methacrylate	NS	C	C
Ethyl Methyl Ether	NS	A	A
Ethyl Morpholine (n-Ethylmorpholine)	NS	A	A
Ethyl Nitrite	NS	A	A
Ethyl Oxalate	NS	Α	Α
Ethyl Phosphonothiodichloride	NS	Α	Α
Ethyl Silicate (Tetraethyl Orthosilicate)	А	Α	A
Ethyl Trichlorosilane	NS	Α	Α

FLUID	8500 79XX	9000	9200W
Ethyl Toluidine	NS	Α	Α
Ethylaluminum Sesquichloride (EASC)	NS	A	A
Ethylamine, Anhydrous (Monoethylamine)	NS	A	А
Ethylamine, Aqueous (Aqueous Monoethylamine)	NS	Α	А
Ethylaniline (n-Ethylaniline)	NS	A	A
Ethylbenzene (Phenylethane)	NS	A	A
Ethylene	A	Α	A
Ethylene Benzene Ethylene Chlorobromide	NS NS	A	A
Ethylene Chlorohydrin	NS	A	A
Ethylene Dibromide (EDB, 1,2-	NS	A	A
Dibromoethane) Ethylene Dichloride	NS	A	Α
Ethylene Glycol (1,2-Ethanediol)	A	A	A
Ethylene Glycol Monobutyl Ether			i i
Acetate	NS	A	A
Ethylene Oxide (Oxirane)	NS	Α	А
Ethylene Vinyl Acetate Copolymer, <150°F	NS	А	А
Ethylenediamine (1,2-Diaminoethane)	NS	Α	A
2-Ethylhexanol	A	A	A
2-Ethylhexoic Acid (Butylethylacetic Acid)	NS	А	Α
2-Ethylhexyl Acrylate	NS	A	A
Ethylidene Norbornene (ENB)	NS	A	A
Fatty Acid Fatty Acid Esters of Coconut Oil	A NS	A	A
Fatty Alcohol	A	A	A
Fatty Alcohol, C10-12	A	A	A
Fatty Alcohol, C12-14	NS	A	A
Fatty Alcohol, C14-C18	NS	A	A
Fatty Amine	NS	Α	Α
Ferric Chloride	А	А	А
Ferric Chloride Solution	Α	Α	Α
Ferrous Chloride Solution	А	А	А
Ferrous Sulfate Solution	Α	Α	Α
Fertilizer Ammoniation Solution with free Ammonia	А	А	А
Fish Oil	А	А	А
Fish Soluables	Α	А	А
Fluorophosphoric Acid	NS	NS	С
Fluorosulfonic Acid	-	A	A
Foots (soapstock)	A	A	A
Formaldehyde	A	A	A
Formaldehyde Solution Formamide	A NS	A	A
Formic Acid	NS	A	A
Freon	С	Α	Α
Freon 11 (Trichlorofluoromethane)	A	A	A
Freon 114 (Dichlorotetrafluoroethane)	A	A	A
Freon 12 (Dichlorodifluoromethane)	Α	Α	А
Freon 141-B (Dichlorofluoroethane)	Α	А	Α
Freon 22 (Chlorodifluoromethane)	NS	Α	Α
Fuel Oil	A	Α	Α
	Α	Α	A
Fuel Oil (No. 3, 4, 5, 6, & heavy)			Α
Fumaric Acid Solution	Α	A	Λ
		A A A	A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline	A NS NS A	A A A	A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline Gasoline Fuel Additives	A NS NS A A	A A A	A A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline Gasoline Fuel Additives General Service	A NS NS A A A	A A A A	A A A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline Gasoline Fuel Additives General Service Gluconic Acid Solution	A NS NS A A A NS	A A A A A	A A A A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline Gasoline Fuel Additives General Service Gluconic Acid Solution Glucose	A NS NS A A A NS A	A A A A A A	A A A A A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline Gasoline Fuel Additives General Service Gluconic Acid Solution Glucose Gluc	A NS A A A NS A A	A A A A A A A A	A A A A A A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline Gasoline Fuel Additives General Service Gluconic Acid Solution Glucose Glue Glutaraldehyde	A NS A A A NS A A NS	A A A A A A A A A	A A A A A A A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline Gasoline Fuel Additives General Service Gluconic Acid Solution Glucose Glue Glutaraldehyde Glycerides, Mono & Di	A NS NS A A A NS A NS NS	A A A A A A A A A	A A A A A A A A A
Fumaric Acid Solution Furfural Furfuryl Alcohol Gasoline Gasoline Fuel Additives General Service Gluconic Acid Solution Glucose Glue Glutaraldehyde	A NS A A A NS A A NS	A A A A A A A A A	A A A A A A A A

FLUID	8500 79XX	9000	9200V
Glycolonitrile Solution	C	Α	Α
Glyoxal Solution	-	Α	Α
Halon 1011 (Bromochloromethane)	NS	А	А
Helium	А	А	А
Heptane	A	A	A
Heptanoic Acid	NS	A	A
3-Heptanol	С	A	A
Hexachlorocycopentadiene	NS	A	A
Hexadecyldimethylamine	NS	A	A
Hexadecyltrichlorosilane	NS NS	A	A
Hexamethylene Diamine Hexane	A	A	A
Hexanol	C	A	A
Hexene (n-Hexene)	NS	A	A
Hexyl Alcolol	C	A	A
	A	A	A
Hexylene Glycol	NS		
Hexyltrichlorosilane hexynol	-	A	A
Hydrazine	С	A	A
Hydrazine (Aqueous Solution)	С	A	Α
Hydroabietyl Alcohol	NS	A	A
Hydrobromic Acid	NS	Α	Α
Hydrocarbon Gas	A	Α	A
Hydrochloric Acid	NS	A	A
Hydrocyanic Acid (Hydrogen Cyanide)	A	A	A
Hydrofluoric Acid, Aqueous	NS NS	NS NS	NS NS
Hydrofluoric Acid (60-80%)	NS	NS	NS
Hydrofluoric Acid Anhydrous Hydrofluoric Acid, Anhydrous	NS	NS	NS
(Hydrogen Fluoride) Hydrofluosilicic Acid Solution	NS	NS	A
Hydrofluosilicic Acid	NS	NS	A
Hydrogen Chloride	NS	A	A
Hydrogen Chloride (HCl, Anhydrous)	NS	A	A
	NS	NS	NS
Hydrogen Fluoride Anhydrous			
Hydrogen Peroxide Solution	NS NS	A	A
Hydrogen Peroxide Hydrogen Sulfide	C	A	A
Hydroxyacetic Acid Solution	C	A	A
Hydroxyethyl Piperazine	NS	A	A
Hydroxylamine	NS	A	A
Ink	A	Α	Α
Isoamyl Acetate	NS	А	А
Isoamyl Alcohol	Α	Α	Α
Isoamylene	NS	Α	Α
Isobutane (Butane)	A	Α	Α
Isobutanol	C	A	A
Isobutene (Isobutylene)	A	A	A
Isobutyl Acetate	NS	A	A
Isobutyl Acrylate Isobutyl Alcohol	NS C	A	A
Isobutyl Alconol	NS	A	A
Isobutyl Isobutyrate	NS	A	A
Isobutyl Methacrylate	NS	A	A
Isobutylene (Isobutene, 2-	A	A	A
Methylpropene)			
Isobutyraldehyde	NS	A	A
Isobutyric Acid	NS	A	A
Isobutyronitrile	NS A	A	A
Isocyanate Isodecanol	C	A	A
Isodecanol Mixed Isomers	C	A	A
Isononanoic Acid	-	A	A
Isononyl Alcohol	-	A	A
	110	A	A
Isooctyl Ester 2,4-D,	NS	A	A

Imperforme A A A A A A Bedra Cyclobrage and models and m		FLUID	8500 79XX	9000	9200W	FLUID	8500 79XX	9000	9200W	FLUID	8500 79XX	9000	9200W
Spectrum C A A Many Discourse NS A Monomation (AG) A Lappropriations NS A A Many Discourse NS A NS												A	A
spspspanni A A A Barbary Discognante (MD) NS A A Respect Add (Spc) - spspspspannime NS A A Methy Discognante (MD) NS A A NS NS A A NS NS A A NS NS A A NS <									1 1	Neopentanoic Acid (Pivalic Acid,	-	A	A
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Methyl Amyl AcetateNSAAAAAAAAAMethyl Amyl Alcohol (Methyl Isobutyl Carbinol)NSAAAAAAAAAAPetroleum OilsAAMethyl Amyl KetoneNSAANaphtha, PetroleumAAAAPetroleum OilsAAMethyl Bronide (Bromomethane)NSAANaphthalene Disulfonic AcidNSAAPetroleum Oil AdditiveAMethyl ButyneNSAANaphthalene Disulfonic AcidNSAAPhenolNSMethyl ButyneNSAANaphtholNSAAPhenolNSMethyl ButynolNSAANaphtholNSAAPhenol-Formaldehyde (Phenolic resin)NSMethyl ButynolNSAANatural LatexAAAPhenolic ResinNS												A	A
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Methyl Bromide (Bromomethane) NS A A Naphthalene Disulfonic Acid NS A A p-Phenetidine NS Methyl Butene NS A A Naphthalene Disulfonic Acid NS A A Phenol NS Methyl Butyne NS A A Naphthol NS A A Phenol NS Methyl Butynol NS A A A A A Phenol-Formaldehyde (Phenolic resin) NS		yl Alcohol (Methyl Isobutyl	NS	А	А	Naphtha, Petroleum	Α	Α	А	Petroleum Gas Oil	А	А	А
Methyl Butene NS A A Naphthenic Acid NS A A Methyl butyl Ketone NS A A Naphthol NS A A Methyl Butynol NS A A Naphthol NS A A Methyl Butynol NS A A A A A A			NS	Α	Α			Α	A	Petroleum Oil Additive		Α	Α
Methyl butyl Ketone NS A A Naphthol NS A A Phenol-Formaldehyde (Phenolic resin) NS Methyl Butynol NS A A A A A A Phenoli-Formaldehyde (Phenolic resin) NS												A	Α
Methyl Butynol NS A A Natural Latex A A A Phenolic Resin NS												A	A
												A	A
Methyl 'Cellosolve' (Ethylene glycol NS A A A Natural Gas Liquids A A A Phenosulfonic Acid NS	Methyl 'Cel	losolve' (Ethylene glycol	1									A	A
Methyl Chloride (Chloromethane) NS A A Neatsfoot Oil A A A Phenyl Mercaptan NS			NS	А	А	Neatsfoot Oil	А	А	А	Phenyl Mercaptan	NS	А	A
Methyl chloroformate NS A A Neodecanoic Acid - A A Phenyl Methyl Ketone NS					_							A	A

Procent State No. A A Description No. A A Spectration A	FLUID	8500 79XX	9000	9200W	FLUID	8500 79XX	9000	9200W	FLUID	8500 79XX	9000	9200W
Product Address No. A. A. A. A. A. Spent Subtro Addres No. A.												
Orth-Throught Part of Construction No. A A A A									•			
Prompter (advised) NS A. A. Description (advised) A. A. Seem (3.5.) A. A. <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>												
Program Construction NS A. A. Propletic construction NS A. A. A. A. Displetic construction NS A. A. A. Displetic construction NS A.												
Chrophythergedam NS A A Description NS A A Description NS A A Description NS A <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
Picophane NS A A Deprivation NS A A Disprime Displayed with the probability of the provide Station A A Disprime Displayed with the probability of the provide Station A A Disprime Displayed with the probability of the provide Station A A Displayed with the probability of the provide Station A A A Displayed with the probability of the provide Station A												
Propublic Action No. A A System - Exclassion No. A A System - Exclassion No. A A System - Exclassion No. A												
Prosphore NS A A Surface NS A A Surface A												
Progenoms Mile or Vellow Nel A A A Paregram Gause A A A A S Sugar Schlein A A A A A Progenoms Cherkels Nel A A A Paregram Gause A A A A A Suffar Cherkels A A A A Progenoms Cherkels Nel A A A Paregram Cherkels Nel A A A Paregram Cherkels Nel A A A A Paregram Cherkels Nel A A A A Paregram Cherkels Nel A A A A A Paregram Cherkels Nel A A A A A A A Suffar Cherkels Nel A A A A A A A A A Suffar Cherkels Nel A A A A A A A A A A A Suffar Cherkels Nel A A A A A A A A A A A A A A A A A A A												
Progebrus NNS A A Bergebrus A A A A Suge Solution A Burding Choine A A A B Burding Choine C												
Proposition Consisting NS A B Stuff Transfer NS A A A A A A A A									0			
Progenome Orgenizational Construction NS A												
Pringhours Peritabelinding NS A B B A A B B A A A A </td <td></td> <td></td> <td></td> <td></td> <td>Resorcinol Formaldehyde Resin, Liquid</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					Resorcinol Formaldehyde Resin, Liquid							
Pinhale Extern, Mosed NS A. A Period A A A A B SA A A Product A	Phosphorus Pentachloride	NS	Α	Α	Rosin	Α	Α	A	Sulfur	Α	Α	A
Pinubic Anyglision NS A B Stature of the optic opt	Phosphorus Trichloride	NS	Α	Α	Rosin Oil	Α	Α	Α	Sulfur Chloride	NS	Α	Α
Peole A <td>Phthalate Esters, Mixed</td> <td>NS</td> <td>Α</td> <td>Α</td> <td>Rosin Solution</td> <td>Α</td> <td>Α</td> <td>A</td> <td>Sulfur Dichloride</td> <td>NS</td> <td>Α</td> <td>A</td>	Phthalate Esters, Mixed	NS	Α	Α	Rosin Solution	Α	Α	A	Sulfur Dichloride	NS	Α	A
Pre-Dill A Buffur code NS A A <	Phthalic Anhydride	NS										
Prese A A A A A A A A A A B Persultation NS A A B Subtract Clorid NS A A Perydree NS A A Control NS A A Subtract Clorid NS A <td></td> <td></td> <td>A</td> <td></td> <td></td> <td>NS</td> <td>A</td> <td></td> <td></td> <td></td> <td></td> <td></td>			A			NS	A					
Piperacine NS A A Setty-for-Option-Retrificationation NS A A Sumformer Concentrate NS A A A Piperylene Concentrate NS A A Setty-for-Option-Retrificationation NS A												
Pipeprigne NS A A Description NS A A Sunflower Oil A A NS C A NS C A NS C A NS C A A Sunflower Oil NS C A <												
Pipepine Concentrate NS A A Superphotophoto Acid NS A A Provide Acid A A A Superphotophoto Acid A A Provide Acid C A A A Biologo Transchioride NS A A Provide Acid A												++
Pick A A A A Silicon Trejectiona NS A A Tail Oi A												
Prestact, Liquid C A												++
Prastic. Luquid A A A A												
Proylaptacinian A A A A												++
Pelyapante - A A A A												+
Polyamine H NS C Tailow A												
Polybudgene - A A A A Tollow/Cocount Type Fetty Add Blends A<												
Polycapriadram Waster Water - A A Sodium Berzonthazole NS A A Coltho-TDA - A A Polycaterinated Biphenyl NS A												
Polyceter A A A Solum Bisuffies Solution A <										-		+
Polyester Resin - A A Sodium Bisuffie following A												
Polyster Resin Solution NS A A Solutine Solution A												
Polyether Triol NS A A Sodium Bisulfite Solution A		NS										
Polyetiylene Glycol A												+
Polygiverol A <th< td=""><td>Polyethyl Benzene</td><td>NS</td><td>Α</td><td>Α</td><td>Sodium Bromide</td><td>-</td><td>Α</td><td>A</td><td>Tetra Chloro Pyridine</td><td>NS</td><td>Α</td><td>A</td></th<>	Polyethyl Benzene	NS	Α	Α	Sodium Bromide	-	Α	A	Tetra Chloro Pyridine	NS	Α	A
Polysplyche A <th< td=""><td>Polyethylene Glycol</td><td>Α</td><td>Α</td><td>Α</td><td>Sodium Carbonate (solution)</td><td>Α</td><td>Α</td><td>Α</td><td>Tetrachlorobenzene</td><td>NS</td><td>Α</td><td>A</td></th<>	Polyethylene Glycol	Α	Α	Α	Sodium Carbonate (solution)	Α	Α	Α	Tetrachlorobenzene	NS	Α	A
Polysocytame NS A A Sodium Cresylate (solution) NS A A A Polysocytames NS A A Sodium Cresylate (solution) A A A Polysocytames NS A A Sodium Didrivate (solution) A A A Polysocythylene Ether NS A A Sodium Didrivate (solution) A A A A A Polysocythylene Ether NS A A Sodium Didrivate (solution) A Tetradydocal (Tel) NS A A A A A A A A A A A A A	Polyglycerol	Α	Α	Α	Sodium Chlorate (solution)	Α	Α	A	1,1,2,2-Tetrachloroethane	NS	Α	A
Polysocyanates NS A A Sodium Cyande (solution) A	,,,,											
Polyols - A A Bodium Dibuty(diffucantamete NS A												
Polyoxybutylene Chlordormate NS A <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
Polyosychtylene Ether NS A <td></td>												
Polypropylene, Amorphous - A </td <td></td>												
Polyingoptene Glycol A												
Polystyrene - A A A Polystyrene - A A Sodium Formate Solution NS A A Polyniyl Choirde Emulsion - A A Sodium Formate Solution NS A A Tetrahydronpthalene NS A A Polyniyl Choirde Emulsion - A A Sodium Hydroxide (solution) C A A A Tetrahydronpthalene NS A A Positek 8017 Paper Making Aid NS A Tetrahydronpthalene NS A A A A												
Polyvinyl Acatate Solution - A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
Polyvinyl Chloride Emulsion - A												
Polyinyl Methyl Ether - A A Sodium Hydroxide (solution) C A A Positek 8617 Paper Making Aid NS A												
Positek 8617 Paper Making AidNSAAPotashAAAPotashAAPotashAAPotash Alum SolutionAAPotash Alum SolutionAAPotash Alum SolutionAAPotassium Carbonate SolutionAAPotassium Cyanide SolutionAAPotassium Ferrocyanide SolutionAAAAAPotassium Ferrocyanide SolutionAAAAAPotassium Flooride SolutionAAAAAPotassium Phenylacetate SolutionAAAAAPotassium Phenylacetate SolutionAAAAAPotassium Phenylacetate SolutionAAAAAPotassium Resinate-APropaneAAPropane Butane MixAAAAPropanoic Acid (Propionic Acid)AAPropanoic AcidAAPropionaldehydeNSANSAAPropionic AcidAAPropionic AcidAAPropionic AcidAAPropionic AcidAAPropionic AcidAAPropionic AcidAAPropionic AcidAAPropionic AcidAAPropionic AcidAA <td></td>												
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Potassium Carbonate SolutionAAAPotassium Cyanide SolutionAAAPotassium Ferrocyanide SolutionAAAPotassium Ferrocyanide SolutionAAAPotassium Fluoride SolutionAAAPotassium HydroxideCAAPotassium Phenylacetate SolutionNSAAPotassium Phenylacetate SolutionNSAAPotassium Resinate-AAPotassium Slicate SolutionAAAPotassium Resinate-AAPropaneAAAPropane Butane MixAAAPropane CacleNSAAPropane CacleNSAAProponic AcidAAProponic AcidAAProponic AcidAAProponic AcidAAProponic AcidAAPropionaldehydeNS <td></td>												
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Potassium Fluoride SolutionAAAAPotassium HydroxideCAASodium n-Methyldithio Carbamate Solution (Metam Sodium)NSAAPotassium Phenylacetate SolutionNSAAAAPotassium Phenylacetate SolutionAAAAAPotassium Phenylacetate SolutionAAAAAPotassium Posphate SolutionAAAAAPotassium Resinate-AASodium Nitrate (solution)AAAPotassium Silicate SolutionAAASodium SilicateNSAAPotassium Silicate SolutionAAASodium Silicate SolutionAAAPropaneAAASodium Sulficate SolutionAAAAPropane Latane MixAAASodium Sulfide SolutionAAAAPropangyl Alcohol-AASodium Sulfide SolutionAAATransformer Oil (petro or mineral base)AAPropionic AcidAAASodium SulfonateNSAATriaectinAAPropionic AcidAAASodium SulfonateNSAATriaectinAAPropionic AcidAAASodium SulfonateNSAATriaectinAAPropyl AcetateNSAAS	Potassium Cyanide Solution				Sodium Mercaptobenzothiazole (MBT)	NS				NS		Α
Potassium Filoride SolutionAAAAAPotassium HydroxideCAAPotassium Phenylacetate SolutionNSAAPotassium Phenylacetate SolutionNSAAPotassium Phenylacetate SolutionAAAPotassium Resinate-AAPotassium Silicate SolutionAAAPotassium Resinate-AAPotassium Resinate-AAPotassium Silicate SolutionAAAPotassium Resinate-AAPropaneAAAPropane Butane MixAAAPropanoic Acid (Propionic Acid)AAPropionaldehydeNSAAPropionic AcidAAPropionic AcidAAPropil Alcohol <td< td=""><td>Potassium Ferrocyanide Solution</td><td>Α</td><td>Α</td><td>Α</td><td>Sodium Methylate</td><td>NS</td><td>Α</td><td>A</td><td>Titanium</td><td>Α</td><td>Α</td><td>A</td></td<>	Potassium Ferrocyanide Solution	Α	Α	Α	Sodium Methylate	NS	Α	A	Titanium	Α	Α	A
Potassium HydroxideCAAPotassium Phenylacetate SolutionNSAAPotassium Phenylacetate SolutionAAAPotassium Phosphate SolutionAAAPotassium Resinate-AAPotassium Silicate SolutionAAAPotassium Silicate SolutionAAAPotassium Resinate-AAPropaneAAAPropaneAAAPropaneAAAPropane Butane MixAAAPropangl Alcohol-AAPropargyl Alcohol-AAPropionic AcidNSAAPropionic AcidAAPropionic AcidA	Botassium Eluorido Solution	^	^	^		NIC	^	Δ	Titopium Dioxido (Slurpy)	Δ	^	^
Potassium Phenylacetate SolutionNSAAAPotassium Phenylacetate SolutionAAAAPotassium Phosphate SolutionAAAAPotassium Resinate-AAAPotassium Resinate-AAAPotassium Silicate SolutionAAAPotassium Silicate SolutionAAAPropaneAAAPropane Butane MixAAAPropangl Alcohol-AAPropangyl Alcohol-AAPropionic AcidNSAAPropionic AcidAAPropionic AcidAAPropyl AlcoholAAAAPropyl AlcoholAAAAPropyl AlcoholAAAAPropyl AlcoholAAAAPropyl AlcoholAAAAPropyl AlcoholAAAA <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td>· • • •</td> <td></td> <td></td> <td></td>					· · · · · · · · · · · · · · · · · · ·				· • • •			
Potassium Phosphate SolutionAAAAPotassium Resinate-AASodium PhonateNSAAPotassium Resinate-AAASodium Poly AcrylateNSAAPotassium Silicate SolutionAAAAAAPropaneAAASodium SilicateAAAPropane Butane MixAAASodium Sulfide SolutionAAAPropanoic Acid (Propionic Acid)AAASodium Sulfide SolutionAAAPropanoje Acid (Propionic Acid)-AASodium Sulfide SolutionAAAPropanoje Acid (Propionic Acid)-AASodium Sulfide SolutionAAAPropionaldehydeNSAASodium Sulfide SolutionAAATransformer Oil (petro or mineral base)AAPropionic AcidAAASodium SulfonateNSAATriacetinAAPropionic AcidAAASodium SulfonateNSAATrialate Technical-AAPropyl AcetateNSAASodium Toluene SulfonateNSAATrialuty PhosphateNSAAPropyl AlcoholAAASodium-n-Lauroyl SarcosinateAAATriabuty PhosphateNSAAPropyl AmeredNS </td <td></td>												
Potassium Resinate-AAPotassium Silicate SolutionAAAPotassium Silicate SolutionAAAPropaneAAAPropaneAAAPropane Butane MixAAAAAAAPropanoic Acid (Propionic Acid)AAAPropangyl Alcohol-AABeta-PropionaldehydeNSAAPropionic AcidNSAAPropionic AcidAAAPropionaldehydeNSAAPropionic AcidAAAPropionaldehydeNSAAPropionic AcidAAPropionaldehydeNSAAPropionic AcidAAAASodium Sulfide SolutionAAPropionic AcidAAPropionaldehydeNSAAPropionic AcidAAAPropionic AcidAAAASodium SulfonateNSAPropionic AcidAAAPropionic AcidAAAPropionic AcidAAAPropionic AcidAAAASodium Toluene SulfonateNSAPropil AlcoholAAAPropyl MercaptanNSAAPropylamineNSAA <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>++</td></td<>												++
Potassium Silicate SolutionAAAAPropaneAAAAPropaneAAAAPropane Butane MixAAAAPropane Butane MixAAAAPropanoic Acid (Propionic Acid)AAAAPropangyl Alcohol-AAAPropionaldehydeNSAAPropionic AcidNSAAPropionaldehydeNSAAPropionic AcidAAAPropionaldehydeNSAAPropionaldehydeNSAAPropionic AcidAAAPropionaldehydeNSAAPropionaldehydeNSAAPropionaldehydeNSAAPropionaldehydeNSAAPropionalcehoneNSAAPropionaldehydeNSAAPropionaldehydeNSAAPropionaldehydeNSAAPropil AlcoholAAAPropyl AlcoholAAAPropyl MercaptanNSAAPropylamineNSAAPropylamineNSAAPropylamineNSAAPropylamineNSAAPropylamineNSAAPropylamineNSAA <tr< td=""><td></td><td>A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td></tr<>		A										+
PropaneAAAAPropane Butane MixAAAAAPropane Butane MixAAAAAPropane Butane MixAAAAAPropane Butane MixAAAAAPropanoic Acid (Propionic Acid)AAAAAPropargyl Alcohol-AAAAAPropionaldehydeNSAASodium Sulfite SolutionAAAPropionic AcidAAAAAAPropionic AcidAAAAAAPropionic AcidAAASodium Sulfite SolutionAAAPropionic AcidAAASodium Sulfite SolutionAAAPropionic AcidAAASodium Sulfite SolutionAAAPropyl AcetateNSAASodium Toluene SulfonateNSAAPropyl AlcoholAAASodium-n-Lauroyl SarcosinateAAAPropylamineNSAASorbitolAAAPropylamineNSAASorbitolAAANSAASorbitolAAAATriazinyl PhosphateNSAAAAPropylamineNSAAAAA		-										
Propane Butane MixAAA </td <td></td>												
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Propargyl Alcohol-AA <td></td>												
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Propylamine NS A A Sorbitol A A A Tributyl Phosphate NS A A												++
	· · · · ·											
	Propylene	A	A	A	Soy Bean Oil	A	A	A	1,2,3 -Trichlorobenzene	NS	A	A

FLUID	8500 79XX	9000	9200W	FLUID	8500 79XX	9000	9200W	FLUID	8500 79XX	9000	9200W
1,2,4 - Trichlorobenzene	NS	Α	Α	Trimethylamine, Aqueous	NS	Α	Α	Vinyl Methyl Ether	NS	Α	A
1,3,5 – Trichlorobenzene	NS	Α	Α	TRIMETHYLCHLOROSILANE	NS	Α	Α	Vinyl Propionate	NS	Α	Α
1,1,1-TRICHLOROETHANE	NS	Α	Α	Trimethyol Propane	NS	Α	Α	Vinyl Resin	-	Α	A
Trichloroethylene	NS	A	Α	Triphenyl Phosphite	NS	Α	A	Vinyl Toluene (Methyl Styrene)	NS	Α	A
Trichloromonofluoromethane	NS	Α	Α	Tripropylene Glycol	Α	Α	Α	Vinyl Trichlorosilane	NS	Α	A
Trichlorophenol	NS	Α	Α	Tris-2-chloroethyl Phosphite	NS	Α	A	Vinylcyclohexene	NS	Α	Α
Trichlorosilane	NS	Α	Α	Trisodium Nitrilotriacetate Solution	NS	Α	A	Vinylidene Chloride	NS	Α	A
Trichlorotrifluoroethane	NS	Α	Α	Tung Oil	Α	Α	A	Vinylpyridine	NS	Α	Α
Tricresyl Phosphate	NS	Α	Α	Turpentine	A	Α	A	Waste Derived Fuel	А	Α	A
Tridecyl Alcohol	Α	Α	Α	Urea	Α	Α	A	Waste Oil	А	Α	Α
Tridecylbenzene	NS	Α	Α	Urea Ammonia	A	Α	A	Waste Water	А	Α	A
Triethanolamine	NS	Α	Α	Urea Formaldehyde	Α	Α	Α	Wax	Α	Α	Α
Triethanolamine Lauryl Sulfate	NS	Α	Α	Urea Formaldehyde Resin Liquid	Α	Α	Α	Whiskey	Α	Α	A
Triethyl Citrate	NS	Α	Α	Urea Solution	Α	Α	Α	White Mineral Oil	Α	Α	Α
Triethyl Phosphate	NS	Α	Α	Urea/Ammonium Nitrate	Α	Α	Α	Wood Sugar Molasses	Α	Α	A
Triethylamine	NS	А	А	n-Valeraldehyde	NS	А	А	XUS 15643.00I Experimental Formulated Polyol	-	А	А
Triethylene Glycol	А	А	А	Valeric Acid	NS	A	Α	XUS 16111.00 Experimental Copolymer Polyol	-	А	А
Triethylene Glycol Dipelargonate	Α	Α	Α	Vanillin Black Liquor	Α	Α	Α	Xylene	NS	Α	Α
Triethylenetetramine	NS	Α	Α	VCM	NS	Α	A	ortho-Xylene	NS	Α	A
Triisobutylene	NS	Α	Α	Vegetable Oil	Α	Α	Α	meta-Xylene	NS	Α	Α
Triisopropanolamine	NS	Α	Α	Vinyl Acetate	NS	Α	Α	para-Xylene	NS	Α	A
Trimethychlorosilane	NS	Α	Α	Vinyl Acrylic Copolymer	NS	Α	Α	Xylidine	NS	Α	Α
Trimethyl Pentanediol	NS	Α	Α	Vinyl Bromide	NS	Α	Α	Zinc Chlorate Solution	-	Α	A
Trimethyl Pentanediol Mono- Isobutyrate	NS	А	А	Vinyl Butyl Ether	NS	А	А	Zinc Chloride Solution	А	А	А
Trimethyl Phosphate	NS	Α	Α	Vinyl Chloride (VCM)	NS	Α	Α	Zinc Dimethyldithiocarbamate	NS	Α	A
Trimethyl Phosphite	NS	Α	Α	Vinyl Ether	NS	Α	Α	Zinc Sulfate	Α	Α	Α
Trimethylacetic Acid (Neopentanoic Acid, Pivalic Acid)	А	А	А	Vinyl Ethyl Ether	NS	А	A				
Trimethylamine, Anhydrous (TMA)	NS	Α	Α	Vinyl Fluoride	NS	Α	A				

* Durlon® 9000 is listed in Pamphlet 95 of the Chlorine Institute, as an acceptable gasket material for dry chlorine (liquid & gas) service. Gaskets for chlorine or oxygen service should be cleaned before installation.

This information is a general guide for the selection of a suitable gasket material. The substances listed above are evaluated for their effect on the gasket materials at ambient temperature (-40°C to 38°C, or -40°F to 100°F) unless stated otherwise. For unusual conditions of fluid concentrates, internal pressures or temperature, consult your representative. This evaluation is based on laboratory or field tests, or experience; however, no guarantee can be given as to the actual performance experienced by the end user.

This Chemical Resistance Chart supersedes and obsoletes all previously issued charts.

Please go to our website for additional chemical listings.

www.trianglefluid.com



Eliminate. Consolidate. Alleviate.

NAR Terminator™ by Gasket Resources Incorporated®

The SecureTrack™ Difference

- Materials: Highly reliable and compatible rail gaskets with Durlon[®] 9000 and Genuine Viton[®] gasket materials.
- Training: Hands-on training for technicians.
- Supply Management: Strategically located distribution.
- Technical Services: Offers engineering support.
- Precision Maintenance Procedure: Best practices/procedures to ensure safety.
- Complete tank car gasket kits provided for easy identification and traceability.

SecureTrack[™] Benefits

- Standardization: Maintain proper inventory by having the right gasket every time with no chance of using the wrong gasket type.
- Compatibility: One or two gasket materials are compatible with most fluids shipped.
- Performance: Durlon[®] 9000 is a proven rail gasket. The Genuine Viton[®] gaskets are produced and marked with complete documentation.
- Simplification: Material choices are easy.
- Safety: Best practices assembly procedures ensure safety is the priority.
- Overall cost savings.

Triangle Fluid Controls Ltd. regards people as its most important resource

Triangle Fluid Controls Ltd. is market-driven and technology-based, serving customers like you with innovative Durlon fluid sealing products. We foster leadership, individual accountability and teamwork.

Product Development

Our product development team is tirelessly working on the next innovative Durlon[®] fluid sealing solution for critical service applications. Durlon sealing products have been designed, laboratory and field tested as proven before they are introduced into the industries we serve so that we are confident that Durlon products will perform well every day. That is the Durlon commitment to you, our valued customer. Visit www.trianglefluid.com to locate some of the specialized industries we serve and related information specific to your industry. We value your interest in TFC and our Durlon [®]sealing products and look forward to working with you.

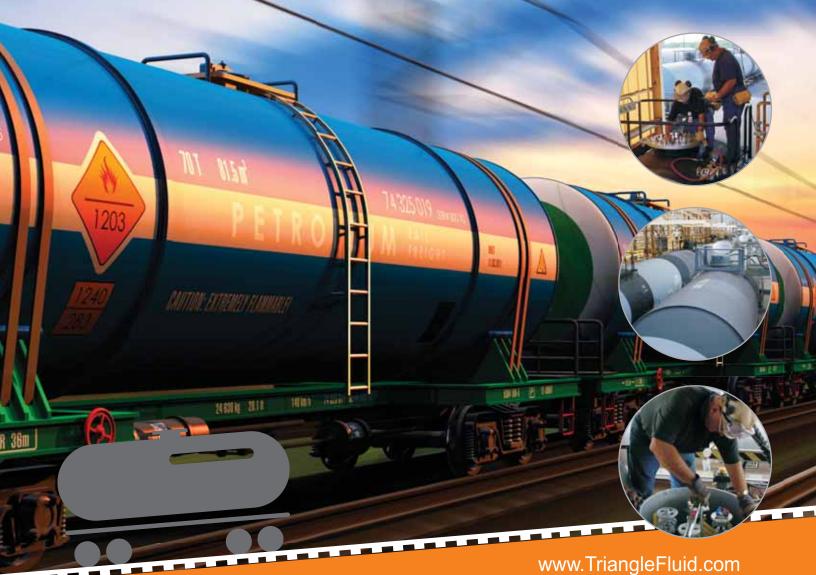
Standardization:

Terminate NARs in your fleet by reducing installation and gasket selection errors through standardization.

If you would like to discuss participating in the SecureTrack[™] program and learn more about how Durlon[®] or Genuine Viton[®]gaskets are compatible for your product shipments, please contact Triangle Fluid Controls Ltd. at 1-866-537-1133 or info@trianglefluid.com.



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