



Meters & Accessories

Liquid Reference Tables

**LIQUID
CONTROLS**
A Unit of IDEX Corporation

IDEX
IDEX CORPORATION



Table of Contents

<u>Liquid to be Metered</u>	<u>Page Number</u>
2-3 Eptm-Ammonium-Chloride	3
Adva-Flow	4
Amine	5
Aniline	6
Atrazine-Herbicide	7
Biodiesel-B100	8
Butyl-Methacrylate-(N-Butyl)	9
Cattle-Feed	10
Clay-Slurry	11
Corn Syrup-ISOSweet-5500	12
Diammonium-Phosphate-Aqueous	13
Dimethyl-Ether	14
Epoxy-Resin-Mix (See Notes)	15
Ethylene-Vinyl-Acetate	16
Formation-Water	17
Gasoline-Unleaded	18
Ink - Roto-Gravure	19
Kerosene-K1	20
Lube Oil	21
Methyl-Alcohol	22
Molasses	23
Nitrogen-Solutions-Straight	24
Ortho-Nitro-Chlorobenzene	25
Petroleum-Spirits	26
Polyester-Surface-Coating	27
Press-Cleaning-Solvent	28
Refrigerant-152a	29
Silicone-Oil	30
Sodium-Sulfide-Aqueous	31
Superseal-30	32
Toluene-Diisocyanate	33
Urea-25% with 75% Organic-Dye	34
Water-Boiler-Feed	35

**Consult factory for material class recommendations
of liquids not listed here.**

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	7	8		BUNA	TEFLON	VITON					
2-3-EPTM-AMMONIUM-CHLORIDE											2,3-EPOXYPROPYL-TRIMETHYLAMMONIUM CHLORIDE CLASS 8 USE NON-PLATED SS ROTOR SLEEVES USE STEEL CASE AND/OR CAST IRON FOR FIRE APPROVAL SAME AS OCTYL ALCOHOL/OCTANOL
2-ETHYL-HEXANOL	16	7	8		Y	Y	0.83	6.27	45		
3-CHLORO-2-HPTM-AMM-CHLORIDE	7	8		Y	Y						3-CHLORO-2-HYDROXYPROPYL-TRIMETHYLAMMONIUM CHLORIDE CLASS 8 USE NON-PLATED SS ROTOR SLEEVES
AATREX-HERBICIDE	30	15	27	8	Y	Y	1.19	N/A	N/A	N/A	HERBICIDE M-5 USE CLASS 30...MAX.25 GPM M-7 AND M-15 USE CLASS 15,M-7 MAX. 60 GPM M-15 MAX. 90 GPM CL 8 USE TEFLON BEARING INSERTS DERIVED FROM COAL TAR ABBREVIATION IS ACN ALSO KNOWN AS ETHYLENE NAPHTHALENE ALUMINUM RATED GOOD ALSO CALLED ACETIC ALDEHYDE ALUMINUM RATED GOOD
ACENAPHTHENE	14	37	8		Y	Y	1.2				
ACETALDEHYDE	16	7	8		Y		0.783	N/A	N/A	N/A	
ACETATE	16	7	8		Y		0.9	0.49	N/A	0.0008	
ACETATE-AMYL	16	7	8		Y		0.88	N/A	N/A	0.0006	
ACETATE-BUTYL	16	7	20	8	Y		0.875	N/A	N/A	0.0006	
ACETATE-ETHYL	16	7	20	8	Y		0.865	N/A	N/A	0.0007	
ACETATE-ISO-BUTYL	16	7	8		Y		0.86	N/A	N/A	0.0007	
ACETIC-ACID	8				Y		1.05	1	32	N/A	
ACETIC-ACID-&HYDRONATE-LIME	8				Y		1.05	1	32	N/A	
ACETIC-ACID-(ANHYDROUS)	8				Y		1.055	1	32	N/A	25% - 50% ACETIC ACID & 50% - 75% WATER
ACETIC-ACID-(AQUEOUS)	8				Y		1.05	1	32	N/A	ALL 316 SS WILL CORRODE IF SMALL AMOUNT OF ACETIC ANHYDRIDE IS PRESENT
ACETIC-ACID--120-GRAIN	8				Y		1.055	1	32	N/A	IRON NO GOOD IN ANY CONCENTRATION
ACETIC-ACID-82-99%-PURE	8				Y		1.0492	N/A	N/A	N/A	
ACETIC-ACID-GLACIAL	8				Y		1.05	1	32	N/A	
ACETIC-ANHYDRIDE	8				Y		1.083	1	30	N/A	
ACETOCHLOR	15	30	27	8	N	Y	1.1				ACETAMINE COMPOUND USED AS A SELECTIVE PREPLANT AND PREEMERGENCE HERBICIDE. pH: 8.0 HIGHLY TOXIC. OPERATION AT UP TO 80% RATED CAPACITY IS RECOMMENDED
ACETONE	16	7	20	8		Y	0.8	1	30	0.0008	TRADE NAMES: ACENT, GUARDIA, HARNESS RELAY, SACEMID, SURPAS TOP-HAND, TROPHY, AND WINNER.
ACETONE-(ANHYDROUS)	16	7	20	8		Y	1.359	1	30	0.0008	CLASS 20 USE STAINLESS STEEL TIMING GEARS DO NOT USE BUNA OR VITON SEALS
ACETONE-(AQUEOUS)	16	7	20	8		Y	0.8	1	30	0.0008	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ACETYL-CHLORIDE	7	8			Y		1.1051	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ACROLEIN	16	7			Y		0.84	N/A	N/A	N/A	PH-6 (10% SOLUTION)
ACRYLIC-ACID	4	8			Y		1.052	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
ACRYLIC-ADHESIVES	15	27			Y		1.052	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
ACRYLIC-EMULSION	15	27			Y		N/A	N/A	N/A	N/A	CLASS 8 MAY ALSO BE USED
ACRYLIC-ESTER	14	37			Y		N/A	N/A	N/A	N/A	
ACRYLIC-RESIN	15	27			Y		N/A	N/A	N/A	N/A	
ACRYLOID-(CELLOSOLVE-ACETATE)	7	8			Y		0.97	1	30	0.0005	TEFLON SEALS, NO PLASTIC, IRON, STEEL OR NI-RESIST
ACRYLONITRILE	15	8			Y		0.8	20	100	N/A	AVOID DISSIMILAR METALS
AD-HERE-SL	27	8			Y		0.977	775	3750	N/A	CLASS 8 W/ TEFLON INSERTS
ADHESIVE-(ALKALINE)	27	8			Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERTS
ADHESIVE-(TOLUENE-&RUBBER)	14	37			Y		N/A	74000	360000	N/A	LIQUID ANTI-STRIP (FATTY ACID AMIDAMINE)
ADHESIVES-(NEUTRAL-PH)	15	27			Y		N/A	N/A	N/A	N/A	CLASS 8 W/TEFLON INSERTS

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	8	16	20	27	37					
ADVA-FLOW						1.05				CONCRETE ADDITIVE PH 4-7 AND CONTAINS AMINES AND ACIDS DO NOT USE WITH CARBON STEEL !!
AIR-(LIQUID-CRYOGENIC)	NR					N/A	N/A	N/A	N/A	NOT RECOMMENDED
ALCOHOL	16	7	20	8		N/A	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL---BEER-INDUSTRY	20	8				N/A	N/A	N/A	N/A	CLASS 20 USE STAINLESS TIMING GEARS
ALCOHOL---HIGH-MOLE.-WEIGHT	NR					N/A	N/A	N/A	N/A	NOT RECOMMENDED 480 DEG F
ALCOHOL-(ANHYDROUS-(NO-WATER))	20	8			Y	0.816	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-ANHYDROUS-200-PROOF	20	8			Y	N/A	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-ANHYDROUS-MOTOR-GRADE	16	7	20	8	Y	N/A	N/A	N/A	N/A	NO PLASTIC GEARS 200 PROOF FOR USE IN GASOHOL - DO NOT USE PLASTIC GEARS
ALCOHOL-BUTYL	16	7	20	8	Y	0.81	N/A	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-C-10-(CHIP TAC)	16	7	20	8	Y	0.873	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-DENATURED	16	7	20	8	Y	0.816	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-HEXYL	16	7	20	8	Y	0.8186	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALIMET-(METHIONINE-HYDROXY-ANA	8				Y	1.223	N/A	600	0.0037	ALL SPECS @ 68F PH-1 USE 316SS SLEEVES, NOT CHROME EST. COR. RATE= .0003"-.0006"/YR.
										VISCOSITY @32F=2900SSU @68F=600SSU
										PRODUCT=LIQUID ANIMAL FEED SUPPLEMENT
ALIPHATIC-THIOL-MERCAPTAN	7	8			Y	N/A	N/A	N/A	N/A	CAUTION! FLAMMABLE, TOXIC WHEN INHALED TERM MERCAPTAN NOW OBSOLETE REPLACED BY THIOL
ALKALI-SOLUTION	7	8			Y	N/A	N/A	N/A	N/A	
ALKALINE-CLEANERS	7	8			Y	N/A	N/A	N/A	N/A	STICKY, AIR DRIES
ALKALINE-POLYMER---LIGHT	15	27			Y	N/A	N/A	N/A	N/A	
ALKYD-OIL-BASE-XYLENE-SOLVENT	14	37	8		Y	N/A	N/A	N/A	N/A	
ALKYD-RESIN-(W/PHTHALIC-ACID)	8				Y			17130		CARBON BEARING PLATE INSERTS VISC. 12760-21500 SSU (17130 AVG.)
ALKYD-RESIN-(WATER-BASE)	15	27	8		Y	N/A	N/A	N/A	N/A	IN CLASS 8 USE TEFLON INSERTS
ALKYD-RESINS	14	37	8		Y	N/A	10000	50000	N/A	USE CARBON INSERT BEARING PLATES
ALKYL-PHENOL-POLYGLYCOL-ETHER	7	8			Y		400	1950		ALSO CALLED A.P.G.
ALKYL-POLYGLYOSIDES	8				Y		10000	46500		DE-RATE TO 55% WITH CARBON BEARINGS
										DE-RATE TO 38% WITH TEFLON BEARINGS
ALKYL-SULFONATE.LINEAR	8				Y	N/A	N/A	N/A	N/A	DETERGENT
ALKYLATE-225	16	7	20	8	Y	0.835	N/A	33		FORM OF BENZENE, ALKYL DERIVATIVES SS UP TO 167 F IS EXCELLENT
										CL 20 USE SS GEARS
ALKYLATE-ESTER	8				Y	N/A	N/A	N/A	N/A	
ALLYL-ALCOHOL	16	7	20	8	Y	0.852	N/A	N/A	0.0006	AVOID DISSIMILAR METALS
ALUMINUM-CHLORIDE-(ANHYDROUS)	NR					2.44	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALUMINUM-CHLORIDE-HYDRATE	NR					2.4	N/A	N/A	N/A	NOT RECOMMENDED
ALUMINUM-CHLOROXYDRATE	8				Y	N/A	N/A	N/A	N/A	AQUEOUS NOT RECOMMENDED
ALUMINUM-HYDROXIDE	16	7	20	8	Y	2.42	N/A	N/A	N/A	CLASS 16 UP TO 10% SOLUTIONS ONLY *SAME AS: ALUMINA TRIHYDRATE
										CLASS 7 UP TO 30% SOLUTIONS ONLY
										CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALUMINUM-NITRATE-SOLUTION	15	8			Y	N/A	N/A	N/A	N/A	OVER 10% SOLUTIONS ...CONSULT FACTORY
ALUMINUM-SULFATE-50%-AL2(SO4)	15	8			Y	2.71	N/A	N/A	N/A	UP TO 30% CONCENTRATION UP TO 70 F ALUMINUM GOOD, UP TO 50% CONCENTRATION UP TO
										167 F STAINLESS STEEL EXCELLENT?? TEMPERATURE RANGE 70 TO 180F
AMBITROL	16	7			Y	N/A	N/A	N/A	N/A	TM FOR COOLANTS USED IN STATIONARY INDUSTRIAL ENGINES

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	8	27	8	BUNA	TEFLON					
AMINE	8				Y	0.933	N/A	N/A	N/A	A CLASS OF ORGANIC COMPOUNDS OF NITROGEN THAT MAY BE CONSIDERED AS DERIVED FROM AMMONIA (NH3) BY REPLACING ONE OR MORE OF THE HYDROGEN ATOMS WITH ALKYL GROUPS. AVOID DISSIMILAR METALS
AMINES	8				Y	N/A	N/A	N/A	N/A	A CLASS OF ORGANIC COMPOUNDS OF NITROGEN THAT MAY BE CONSIDERED AS DERIVED FROM AMMONIA (NH3) BY REPLACING ONE OR MORE OF THE HYDROGEN ATOMS WITH ALKYL GROUPS. AVOID DISSIMILAR METALS
AMINES-WITH-RANEY-NICKEL-1-2%	NR					N/A	N/A	N/A	N/A	NOT RECOMMENDED
AMINO BENZENE	8	47			Y	1.022	4	38	N/A	** SEE ANILINE INFORMATION **
AMINOETHANE-(ETHYLAMINE)	7	4	8		Y	0.689	N/A	N/A	N/A	TECHNICAL GRADE - ANHYDROUS & 70% AQUEOUS PURE - 98.5% MINIMUM
										AVOID DISSIMILAR METALS
										ALSO SEE MONOETHYLAMINE
AMMONIA	15	30	27	8	Y	N/A	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS AQUEOUS SOLUTIONS UP TO 32%
AMMONIA-(ANHYDROUS)-60-225-PSI	12				Y	0.77	N/A	N/A	0.0013	CLASS 8 WITH TEFLON INSERT BEARINGS CONSULT FACTORY FOR PRICING
										HARD CHROME ROTOR SLEEVES & HARD CARBON BEARINGS
AMMONIA-(ANHYDROUS)-NH3	12				Y	0.7402	N/A	N/A	0.0013	"SEALS-OTHER" ETHYLENE PROPYLENE (EP, EPDM) CONSULT FACTORY FOR PRICING
										HARD CHROME ROTOR SLEEVES & HARD CARBON BEARINGS
AMMONIA-18-24%-SOLUTION	15	30	27	8	Y	N/A	N/A	N/A	N/A	"SEALS-OTHER" NEOPRENE (CHLOROPRENE) "SEALS-OTHER" ETHYLENE PROPYLENE (EP, EPDM) AVOID DISSIMILAR METALS
AMMONIA-NITRO-SULFUR	8				Y	1.25	N/A	N/A	N/A	CLASS 8 WITH TEFLON INSERT BEARINGS
AMMONIUM-CARBONATE-(AQUEOUS)	7	8			Y	N/A	N/A	N/A	N/A	TEFLON BEARING PLATE INSERTS
AMMONIUM-CHLORIDE	7	8			Y	1.54	10	50	N/A	
AMMONIUM-HYDROXIDE	15	8			Y	0.99	1	30	N/A	AVOID DISSIMILAR METALS
AMMONIUM-NITRATE-(AQUEOUS)	15	8			Y	1.725	N/A	N/A	0.0003	CLASS 8 WITH TEFLON INSERT BEARINGS
AMMONIUM-NITRATE-SOLUTION	15	27			Y	1.73	N/A	N/A	0.0003	CLASS 8 WITH TEFLON INSERT BEARINGS
AMMONIUM-PHOSPHATE-DIBASIC	NR					1.619	N/A	N/A	N/A	AVOID DISSIMILAR METALS
AMMONIUM-PHOSPHATE-MONOBASIC	NR					1.803	N/A	N/A	N/A	NOT RECOMMENDED
AMMONIUM-SULFATE-(AQUEOUS)	8				Y	1.77	N/A	N/A	N/A	AVOID DISSIMILAR METALS
AMMONIUM-SULFIDE	NR					N/A	N/A	N/A	N/A	NOT RECOMMENDED
AMMONIUM-SULFITE	NR					1.41	N/A	N/A	N/A	PITTING MAY OCCUR UNDER CERTAIN CONDITIONS
AMMONIUM-THIOSULFATE-58%	8				Y	1.32	N/A	N/A	N/A	NOT RECOMMENDED
AMPS-MONOMER	8				Y	1.22	6			KODAK FILM DEVELOPING SOLUTION (REPLENISHER) HYDROPHILIC SULFONIC ACID ACRYLIC MONOMER. pH: 9.0-9.7
										USED IN WATER TREATMENT, OIL DRILLING, ACRYLIC FIBER, AND COATING/ADHESIVE.
AMYL-ACETATE	16	7	20	8	Y	0.879	N/A	N/A	0.0006	GRADES: COMMERCIAL - 85-88%, HIGH TEST 85-88% TECHNICAL 90-95%, PURE 95-99%, SPECIAL
										ANTIBIOTIC GRADE
AMYL-ALCOHOL	16	7	20	8	Y	0.817	N/A	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
AMYL-CARBINOL-(HEXANOL)	16	7	8		Y	0.8186	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	8	47	BUNA	TEFLON	VITON					
ANILINE				Y		1.022	4	38		** MUST USE TEFLON BASED SEALS ONLY ** INCLUDES TEFLON, GYLON, ARMALON MATERIALS CLASS 47 USE TEFLON/GYLON SEAL OPTIONS DO NOT USE STANDARD VITON (OR BUNA) SEALS CLASS 8 USES TEFLON/GYLON SEALS AS STANDARD PH-H.1 (SLIGHTLY ALKALINE) - HIGHLY TOXIC PRODUCT SAME AS ANILINE OIL, AMINOBENZENE, PHENYLAMINE CONSULT ENGINEERING IF NECESSARY ** SEE ANILINE INFORMATION ** CLASS 8 USE TEFLON INSERT BEARINGS TECHNICAL NAME - ETHYLENE GLYCOL IF CLASS 20 SELECTED CONSULT FACTORY FOR ROTOR SIZE NOT RECOMMENDED NOT SANITARY AMMONIUM HYDROXIDE ALTERNATE NAME AVOID DISSIMILAR METALS CLASS 8 WITH TEFLON INSERT BEARINGS AVOID DISSIMILAR METALS CLASS 8 WITH TEFLON INSERT BEARINGS URETHANE COATING - LIGHT SENSITIVE TEFLON BEARING PLATE INSERTS INCLUDES: METHANOL, TOLUENE, XYLENE & ISO-PROPYL ALCOHOL
ANILINE-OIL	8	47		Y		1.022	4	38		
ANIMAL-FAT	3	14	8	Y	Y	N/A	N/A	N/A	N/A	
ANT-OIL-(ANHYDROUS)	3	8		Y		1.1598	N/A	N/A	N/A	
ANTIFREEZE	1	16	7	Y	Y	0.1	N/A	N/A	0.0004	
ANTIMONY-TRICHLORIDE	NR					3.14	N/A	N/A	N/A	
APPLE-JUICE	8			Y	Y	1.06	N/A	N/A	N/A	
AQUA-AMMONIA	15	30	27	8	Y	N/A	N/A	N/A	N/A	
AQUA-AMMONIA-29-30%	15	30	27	8	Y	N/A	N/A	N/A	N/A	
AQUA-REGIA	NR					N/A	N/A	N/A	N/A	
AQUALADE-MONOMER-SEE-NOTES	8			Y		N/A	N/A	N/A	N/A	
AROMATIC-SOLVENTS-(SEE-NOTES)	16	7	8		Y	N/A	N/A	N/A	N/A	
ARSENIC-ACID-(AQUEOUS)	8			Y	Y	2.5	N/A	N/A	N/A	
ARTIC-DIESEL-FUEL-NO.-1	1	7	16	Y	Y	N/A	N/A	N/A	N/A	
ASPHALT	14	37	47	Y	Y	N/A	N/A	N/A	N/A	ALSO KNOWN AS ASPHALTUM, EARTH PITCH, TRINIDAD PITCH, MINERAL PITCH, & PETROLEUM ASPHALT. VISC. VARIES WIDELY WITH TYPE & TEMP. NORMALLY HANDLED IN THE 300 TO 400 F RANGE AT WHICH TEMP. VISC. IS USUALLY IN THE 100 TO 1000 SSU RANGE.
ASPHALT-&RESIN	14	37	47	Y	Y	N/A	N/A	N/A	N/A	
ASPHALT--BLOWN	14	37	47	Y	Y	N/A	N/A	N/A	N/A	
ASPHALT--CUT-BACK	14	37	47	Y	Y	N/A	N/A	N/A	N/A	VISC. VARIABLE, DEPENDING ON DILUTION & TEMP., NORMALLY 100 TO 1000 SSU IN 70 TO 200 F. RANGE.
ASPHALT---PENETRANT-GRADE	14	37	47	Y		N/A	N/A	N/A	N/A	KALREZ SEALS METERING TEMPERATURE 350-500 DEG. F 1475 SSU AT 500 DEG F
ASPHALT-180-300-DEG.F	14	37	47	Y	Y	N/A	N/A	N/A	N/A	STEAM JACKET 1000 SSU TO 2161 SSU HI-TEMP TRIM HEAT EXTENSION
ASPHALT-EMULSION	37	47		Y	Y	N/A	N/A	N/A	N/A	WATER BASE EMULSIONS MAY CONTAIN CLAY ADDITIVE ABOVE A 12% CONCENTRATION CLASS 47 IS RECOMMENDED COVERS SHOULD BE FILLED WITH GREASE
ASPHALT-GILSONITE-SEALER	14	37	47	N	Y	0.8869		170		VISCOSITY 170 - 175 SSU AT 77 F COMPOSITION ASPHALT 65-75% MINERAL SPIRITS (STODDARD) 25-35% GILSONITE 19-23%
ATF	1	16	7	Y	Y	0.87	34	185		IT IS USED AS REJUVENATOR AND SEALER OF BITUMINOUS ASPHALT PARKING LOT AND DRIVEWAYS. AUTOMATIC TRANSMISSION FLUID TRADE NAMES DEXRON AND MERCON
ATLAC-RESIN-#382	15	27		Y	Y	N/A	390	1950	N/A	MACHINING COOLANT/LUBRICANT
ATOGUARD-EA20	1	14	37	Y	Y	1				

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL		SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	30	15	27	8					
ATRAZINE---HERBICIDE					1.19	N/A	N/A	N/A	HERBICIDE M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15;M-7 MAX. 60 GPM M-15 MAX. 90 GPM
AV-GAS-(AVIATION-FUELS)	2				0.74	2	35	0.0005	PH=7 ALSO SEE JET FUEL
AZABENZENE	16	20	8		0.98				AROMATIC SOLVENT BEHAVES AS AN AMINE FORMULA: C5H6N OTHER NAMES: PYRIDINE OR AZINE AROMATIC SOLVENT BEHAVES AS AN AMINE FORMULA: C5H6N
AZINE	16	20	8		0.98				OTHER NAMES: AZABENZENE, PYRIDINE CLASS 20 USE STAINLESS STEEL TIMING GEARS MAIN COMPONENT IS BARIUM SULFATE (BaSO4) TRACES OF STRONTIUM POSSIBLE
BANANA-OIL-(AMYL-ACETATE)	16	7	20	8	0.879	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS UP TO 50% CONCENTRATION AND 122 F
BARITE	8								STAINLESS STEEL EXCELLENT *HYDROXIDE)
BARIUM-HYDRATE-(BARIUM	7	20	8		1.656	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS UP TO 50% CONCENTRATION AND 122 F
BARIUM-HYDROXIDE-(AQUEOUS)	7	20	8		1.65	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS UP TO 50% CONCENTRATION AND 122 F.
BARIUM-NITRATE	NR				3.244	N/A	N/A	N/A	STAINLESS STEEL EXCELLENT
BARIUM-SULFATE-(AQUEOUS)	8				N/A	N/A	N/A	N/A	NOT RECOMMENDED
BARIUM-SULFIDE-(AQUEOUS)	8				4.25	N/A	N/A	N/A	MAIN COMPONENT OF BARITE
BASALIN---HERBICIDE	30	15	27	8	N/A	N/A	N/A	N/A	HERBICIDE M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15; M-7 MAX. 60 GPM
BEER	20	8			N/A	N/A	N/A	N/A	M-15 MAX. 90 GPM CLASS 8 WITH TEFLON INSERT BEARINGS TEFLON BEARINGS M-7 MAXIMUM 75 GPM CLASS 20 USE STAINLESS STEEL TIMING GEARS
BEEESWAX	14	37			0.95	N/A	N/A	N/A	CLASS 8 WITH TEFLON INSERT BEARINGS MAY ALSO BE USED
BEEET-SUGAR-LIQUORS	3	14	37	20	N/A	N/A	N/A	N/A	VISCOSITY 300 SSU AT 122 F CLASS 8 USE TEFLON INSERT BEARINGS
BEEET-SUGAR-MOLASSES	3	14	37	8	1.4	60	300	N/A	
BENZALDEHYDE-(ANHYDROUS)	16	7	8		1.041	N/A	N/A	N/A	STAINLESS STEEL UP TO 167 F IS EXCELLENT
BENZENE	16	7	20	8	0.88	10	50	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS CLASS 20 USE STAINLESS STEEL TIMING GEARS
BENZENE-OR-BENZOL-(ANHYDROUS)	7	20	8		0.879	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS STAINLESS STEEL UP TO 167 F IS EXCELLENT
BENZENE-OR-BENZOL-(AQUEOUS)	7	20	8		N/A	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
BENZINE-(LIGROIN)	16	7	8		N/A	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
BENZOIC-ACID	20	8			1.27	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
BENZYL-ALCOHOL	16	7	20	8	1.04	N/A	N/A	N/A	ALUMINUM,CAST IRON & STAINLESS STEEL EXCELLENT
BENZYL-BENZOATE	16	7	8		1.116	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS ALUMINUM EXCELLENT
BERYLLIUM-SODIUM-CHLORIDE	7	8			1.9	N/A	N/A	N/A	
BETULA-OIL-(METHYL-SALICYLATE)	1	16	7		1.18	N/A	N/A	N/A	HERBICIDE (SEE DUAL AND METOLACHLOR)
BICEP-HERBICIDE	30	15	27	8	N/A	N/A	N/A	N/A	M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15; M-7 MAX. 60 GPM
									M-15 MAX. 90 GPM
									CLASS 8 WITH TEFLON INSERT BEARINGS

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	1	16	7	BUNA	TEFLON					
BIDIESEL-B100				N	Y	Y	1.9			THE OXYGENATED METHYL ESTERS OF VEGETABLE OIL CAUSE BIDIESEL TO HAVE STRONG SOLVENT PROPERTIES. PURE BIDIESEL (B100) CAN SWELL AND DEGRADE BUNA-N, NATURAL RUBBER, AND NITRILE. THESE EFFECTS HAVE NOT BEEN OBSERVED WITH BLENDS OF B20 (20% BIDIESEL IN FUEL #2). ALUMINUM OR CAST IRON EXCELLENT VISCOSITY SHOWN AT 212 F HERBICIDE M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15, M-7 MAX. 60 GPM M-15 MAX. 90 GPM
BIPHENYL-(SEE-DIPHENYL)	16	7	8		Y	Y	N/A	N/A	N/A	
BUTIMEN	14	37			Y	Y	200	1000	N/A	
BLADEX--HERBICIDE	30	15	27	8	Y	Y	N/A	N/A	N/A	
BLEACH-20%-WITH-80%-WATER	NR						N/A	N/A	N/A	CLASS 8 WITH TEFLON INSERT BEARINGS NOT RECOMMENDED SEE SODIUM HYPOCHLORITE
BLEACHING-LIQUID	NR						N/A	N/A	N/A	NOT RECOMMENDED SEE SODIUM HYPOCHLORITE
BRAKE-FLUID	1	16	7		Y	Y	1.04			MIXTURE OF HYDRAULIC FLUID AND GLYCOL
BRAN-OIL-(ANHYDROUS)	16	7	8		Y	Y	1.1598	N/A	N/A	SAME AS FURFURAL
BRINE--FOR-MEAT-PROCESSING	8	7			Y	Y	N/A	N/A	N/A	CAST IRON FOR LIMITED SERVICE ONLY CL 8 USE NON-PLATED SS316 SLEEVES
BRINE-SATURATED-(26%-SOLN.)	8	7	20		Y	Y	1.203	N/A	N/A	CL 8 USE NON-PLATED SS316 SLEEVES
BRINE-SOLUTION-(0-TO-26-%)	8	7	20		Y	Y	N/A	N/A	N/A	TEFLON BEARING PLATE INSERTS CAST IRON AND BRASS FOR LIMITED SERVICE -FREE OF AIR STAINLESS STEEL EXCELLENT
BRINE-W/NITRATES-&PHOSPHATES	8				Y	Y	N/A	N/A	N/A	CL 8 USE NON-PLATED SS316 SLEEVES
BROMINE--LIQUID	NR						N/A	N/A	N/A	CL 8 USE NON-PLATED SS316 SLEEVES NOT RECOMMENDED
BRUSH-KILLER-2-4D	16	7	8		Y	Y	N/A	N/A	N/A	PRODUCT IS BASICALLY AN AMINO ACID
BUNKER-C-(OIL)	14	37			Y	Y	0.97	150	0.0004	METERING TEMPERATURE 225 DEG F HEAT EXTENSION
BUTADIENE	10				Y	Y	0.6211	50	0.0008	
BUTANE-LIQUID	10			Y	Y	Y	0.582	N/A	0.0011	
BUTANEDIOL-(1,3-BUTYLENE	16	7	8		Y	Y	1.0059	N/A	N/A	GYLCOL)
BUTANEDIOL-T,4-BUTYLENE-GLYCOL	16	7	8		Y	Y	1.02	31	N/A	
BUTANOL-(N-BUTYL-ALCOHOL)	16	7	20	8	Y	Y	0.8109	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS SEE BUTYLENE
BUTENE	10				Y	Y	0.6			
BUTOXYETHANOL	8	16	7		N	Y	0.9	50		CLASS 16 AT ROOM TEMPERATURE ONLY. WATER AND SOLVENT-SOLUBLE SOLVENT WITH EXCELLENT DEGREASING ABILITY.
BUTYL-"CARBITOL"	16	7	8		Y	Y	0.9536	N/A	N/A	OTHER NAMES: BUTYL CELLOSOLVE, ETHYLENE GLYCOL N-BUTYL ETHER, BUTYL GLYCOL. SAME AS DIETHYLENE GLYCOL MONOBUTYL ETHER AND DOWANOL DB
BUTYL-ACETATE-(N-BUTYL-ACETATE)	16	7	20	8	Y	Y	0.8862	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS AIR ELIM. USE KALREZ/ARMALON SEALS
BUTYL-ACETATE-(N-BUTYL)	16	7	20	8	Y	Y	0.8905	30	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS AIR ELIM. USE KALREZ/ARMALON SEALS
BUTYL-ACRYLATE-(N-BUTYL)	4	8			Y	Y	0.9015	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
BUTYL-ACRYLATE-(TERT-BUTYL)	4	8			Y	Y	0.8109	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
BUTYL-BENZONATE	16	7	8		Y	Y	1	N/A	N/A	
BUTYL-CELLOSOLVE-(TRADE-NAME	8	16	7		Y	Y	0.9	50	N/A	CLASS 16 GOOD AT AMBIENT. ROOM TEMP. ONLY FOR ETHYLENE GLYCOL MONOBUTYL ETHER
BUTYL-CLEANER-(SEE-NOTES)	7	8			Y	Y	N/A	N/A	N/A	CONSISTS OF: TRISODIUM PHOSPHATE 5%, SODIUM SILICATE 5% BUTYL CELLOSOLVE 6% AND NON IONIC SURFACTANTS 85%
BUTYL-ETHYL-KETONE-BEK	16	7	8		Y	Y	0.8266	N/A	N/A	CLASS 16 AT ROOM TEMPERATURE ONLY.
BUTYL-GLYCOL	8	16	7		N	Y				SAME AS BUTYL CELLOSOLVE

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL		SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	4	8	BUNA	TEFLON					
BUTYL-METHACRYLATE-(N-BUTYL)	16	7	8						CLASS 4 USE STAINLESS STEEL TIMING GEARS
BUTYL-OXITOL				Y	Y	N			CLASS 16 AT ROOM TEMPERATURE ONLY. SAME AS BUTYL CELLOSOLVE
BUTYLACRYLATE-METHYL METHACRYLA	8			Y					BUTYL ACRYLATE METHYL METHACRYLATE (BAMMA) TRADE NAME: RHOPEX
									ACRYLIC EMULSION POLYMER
BUTYLENE-LIQUID	10			Y					SIMILAR TO BUTENE
BUTYLPHENOL-ORTHO-TERT	8			Y					PRODUCT FREEZES AT 208 F. HEAT EXTENSION REQUIRED
BUTYLPHTHALATE	16	7	8	Y	Y	Y			SEE DIBUTYL PHTHALATE
BUTYRALDEHYDE	16	7	8	Y	Y	Y			ALUMINUM, CAST IRON OR STAINLESS STEEL EXCELLENT
BUTYRIC-ALCOHOL	16	7	20	8	Y	Y			* SEE N-BUTYL ALCOHOL
									CLASS 20 USE STAINLESS STEEL TIMING GEARS
CALCIUM-CHLORATE	7	8		Y	Y	Y			
CALCIUM-CHLORIDE-30-34%	7	8		Y	Y	Y			AVOID DISSIMILAR METALS
CALCIUM-CHLORIDE-46%	7	8		Y	Y	Y			CL 8 USE NON-PLATED SS316 SLEEVES CL 8 USE NON-PLATED SS316 SLEEVES
CALCIUM-FLUORIDE	7	8		Y	Y	Y			AVOID DISSIMILAR METALS PH MUST BE LESS THAN 8
CALCIUM-HYDROXIDE	37	27	20	8	Y	Y			CAST IRON & STAINLESS STEEL RATED GOOD UP TO 50% CONCENTRATION AND 70 F
									CLASS 8 WITH TEFLON INSERT BEARINGS
CALCIUM-HYPOCHLORITE-(AQUEOUS)	NR								CLASS 20 USE STAINLESS STEEL TIMING GEARS
CALCIUM-LIGNOSULFONATE	1	7	8	Y	Y	Y			NOT RECOMMENDED
									VISC. 700 CP AT 50F. 50 CP AT 120F
									BWARE OF SOLID CONTENT, TYPICALLY 45 % PH RANGE IS 3.0 TO 4.0 PER MSDS SHEET
CALCIUM-NITRATE	8	4		Y	Y	Y			USED IN PAPER/PULP PROCESSING
									ALUMINUM AND SS316 SHOW THE SAME PENETRATION PER YEAR: ~20 MILS. ALTHOUGH IT IS NOT EXCELLENT. SS 316 HAS THIS PERFORMANCE UP TO 340F
CANDY-(SEE NOTES)	15	8		Y	Y	Y			GLUCOSE 37%, LIQUID SUGAR 14%, FLOUR 22%, STARCH 4%. WATER 23%
									CLASS 8 W/TEFLON INSERTS
CANE-SYRUP	3	14	37	20	Y	Y			CLASS 8 W/ TEFLON INSERTS
									MAY ALSO BE USED
CAPRIC-ACID	8	27	15	30	Y	Y			ALSO CALLED DECANOIC ACID OR DECYLIC ACID FORM OF CARBOXYLIC OR FATTY ACID
									CLASS 8 USE TEFLON INSERT BEARINGS SEE 'FATTY ACIDS' LISTING
CARBITOL	16	7	8		Y				TRADEMARK FOR A GROUP OF MONO- AND DIALKYL ETHERS OF DIETHYLENE GLYCOL AND THEIR DERIVATIVES
									SEE DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE
CARBITOL-ACETATE	16	7	8		Y				NOT RECOMMENDED
CARBON-DIOXIDE-CRYOGENIC-LIQ.	NR								MUST BE CLEAN PURE CHEMICAL (NO WATER)
CARBON-TETRACHLORIDE	7	8		Y	Y	Y			0.0006
									CAST IRON FAIR, STAINLESS STEEL GOOD. 82% CARBON TETRACHLORIDE, 17% SULPHUR DIOXIDE, 16% CARBON BISULFIDE
CARBON-TETRACHLORIDE-(SEE NOTE)	8				Y				
CARBOXYLIC-ACID	8	27	15	30	Y	Y			SEE 'FATTY ACIDS' LISTING FOR DETAILS REFERENCE CAPRIC, DECANOIC, PROPIONIC ACIDS
									DO NOT USE 304 STAINLESS STEEL USE TEFLON INSERT BEARINGS
CARMEL	8				Y				1950
CARNATION-OIL-(MINERAL-OIL)	3	16	8		Y	Y			N/A
CASHEW-OIL-HOT-W/5%-SULFURIC	8				Y				N/A
CASTOR-OIL	3	14	37	20	Y	Y			*ACID VISC. RANGE 200 TO 3000 SSU.
CASTOR-OIL-ACID	16	7	8		Y	Y			0.969 0.94 SAME AS RICINOLEIC ACID

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	BUNA	TEFLON	VITON	OTHER	OTHER					
CLAY-SLURRY	27	47			Y	N/A	N/A	N/A	CLASS 27 ISO-K. UP TO A 12% CLAY CONCENTRATION 12% TO 40% CONCENTRATION USE CLASS 47 FILL	
									COVERS WITH GREASE. PLUG BLEED HOLES AND DERATE METER AS FOLLOWS: UP TO 30% OPERATE AT 60% RATED CAPACITY. UP TO 40% OPERATE AT 30% CAPACITY	
COAL-SLURRY-(SEE-NOTES)	37	47			Y	N/A	N/A	N/A	50% COAL DUST. 40% NO. 6 OIL. 10% WATER	
COAL-TAR	14	37	Y		Y	1.2	N/A	N/A		
COAL-TAR-PITCH	14	37	Y		Y	1.2	N/A	N/A		
COBALT-NITRATE-(COBALTOUS)	8				Y	1.88	N/A	N/A	50% WATER. 50% COBALT NITRATE	
COCAMIDOPROPYL-BETAINE	4	8			Y	1.0396	10000	46500	TRADE NAME RITATAINE	
									DE-RATE TO 55% FOR CARBON BEARINGS	
									DE-RATE TO 38% FOR TEFLON BEARINGS	
COCOA-BUTTER	3	14	37	8	Y	0.862	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
COCOA-BUTTER-(THEOBROMA-OIL)	3	14	37	8	Y	0.862	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
COCOA-LIQUOR	8				Y	N/A	12000	60000	CLASS 8 USE TEFLON INSERT BEARINGS	
COCONUT-OIL	3	14	37	8	Y	0.92	N/A	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS	
COD-LIVER-OIL	3	14	37	8	Y	0.918	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
COLLOIDAL-SILICA-AMMONIA-BASE	7	8			Y	1.2	N/A	N/A	A ROSIN RESIDUE WHICH REMAINS AFTER THE VOLATILES HAVE BEEN REMOVED BY DISTILLATION	
COLOPHONY	15	8			Y	1.08	N/A	N/A	OF CRUDE TURPENTINE	
									CLASS 8 USE TEFLON INSERT BEARINGS	
COMPERLAN	8				Y		500	2480	COMPOSED OF FATTY ACIDS & ETHANOLAMINES TEFLON BEARING INSERTS - DE-RATE TO 66%	
CONCRETE-ADDITIVE	27				Y	1.05	N/A	N/A	WR GRACE ADDITIVE - HYDROPHOBIC, AIRALON, ETC. METER MAINTENANCE CO. CARLTON CA.	
									USE NI-RESIST GEARS ...NOT SINTERED IRON GEARS	
									VISC. RANGE 100-1000 CST OR 530-4600 SSU AT 70F	
									PH RANGE FROM 7 TO 11	
CONCRETE-SEALING-COMPOUND	NR					N/A	N/A	N/A	NOT RECOMMENDED	
CONDENSATE-(HYDROCARBON)	1	16			Y	0.75	N/A	N/A	IRON GEARS	
CONTACT-CEMENT	15	8			Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
COOKING-OILS	3	14	37	8	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
COPOLYMER-ESTER	16	7			Y	0.92	N/A	N/A	COMMERCIAL NAME: LUBRIZOL 6662	
									TYPE: VISCOSITY MODIFIER (COPOLYMER ESTER) SEE ALSO PETROLEUM DISTILLATE	
									CAS # 64742-46-7	
COPPER-ACETATE-(AQUEOUS)	7	8			Y	1.9	N/A	N/A	VISCOSITY: 4,000 cStk @ 104 F; 250 cStk @ 212 F UP TO 90% CONCENTRATION AND 70 F	
									CAST IRON EXCELLENT UP TO 10% CONCENTRATION AND 70 F STAINLESS STEEL GOOD	
COPPER-CHLORIDE-(AQUEOUS)	NR					3.38	N/A	N/A	NOT RECOMMENDED	
COPPER-CYANIDE	NR						N/A	N/A	NOT RECOMMENDED	
COPPER-NITRATE-(AQUEOUS)	8				Y	2.32	N/A	N/A	NOT RECOMMENDED	
COPPER-SULFATE-(AQUEOUS)	NR					2.28	N/A	N/A	NOT RECOMMENDED	
CORN-EXTRACTIVE-FERMENTED	3	14	37	8	Y	1.2	2000	10000	CLASS 8 USE TEFLON INSERT BEARINGS	
CORN-OIL	3	14	37	8	Y	0.914	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
CORN-STARCH	NR						N/A	N/A	NOT RECOMMENDED	
CORN-SYRUP---ISOSWEET-100	3	14	37	8	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
									PH-3.6 (ACIDIC)	
									NO INFO. AVAILABLE ON FIELDS 5-8	
CORN-SYRUP-42-DEG.-BAUME'	3	14	37	8	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
CORN-SYRUP-43-DEG.-BAUME'	3	14	37	8	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
CORN-SYRUP-HI-SWEET-42	3	14	37	8	Y	1.346	150	740	CLASS 8 USE TEFLON INSERT BEARINGS	
									PH-3.5 (ACIDIC)	
									NO INFO. AVAILABLE ON COEFF. OF THERMAL EXPANSION	
CORN-SYRUP-HI-SWEET-55	3	14	37	8	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
CORN-SYRUP-HI-SWEET-90	3	14	37	8	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
CORN-SYRUP-HIGH-FRUCTOSE	3	14	37	8	Y	N/A	1040	5200	CLASS 8 USE TEFLON INSERT BEARINGS	
CORN-SYRUP-ISOSWEET-180	3	14	37	8	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT									
	3	14	37	8	8						BUNA	TEFLON	VITON	OTHER					
CORN-SYRUP-ISOSWEET-5500	3	14	37	8	8	Y				N/A									CLASS 8 USE TEFLON INSERT BEARINGS
CORNSWEET-42	3	14	37	8	8	Y				1.346		150	740	N/A					CLASS 8 USE TEFLON INSERT BEARINGS PH-3.5 (ACIDIC)
CORNSWEET-55	3	14	37	8	8	Y				N/A				N/A					CLASS 8 USE TEFLON INSERT BEARINGS
CORNSWEET-90	3	14	37	8	8	Y				N/A				N/A					CLASS 8 USE TEFLON INSERT BEARINGS
COTTONSEED-&SOYBEAN-OIL	3	14	37	8	8	Y		Y		0.915				N/A					CLASS 8 USE TEFLON INSERT BEARINGS
COTTONSEED-OIL	3	14	37	8	8	Y		Y		0.915				N/A					CLASS 8 USE TEFLON INSERT BEARINGS
CRANBERRY-JUICE	8					Y		Y		N/A				N/A					HARD CARBON BEARINGS
CRANBERRY SAUCE (NOT-JELLIED)	8					Y		Y		N/A				N/A					HARD CARBON BEARINGS
CREOSOTE-(COAL-TAR)	14	37	20			Y		Y		1.08				N/A					STAINLESS STEEL EXCELLENT.
CRESOL-(CRESYLIC-ACID)	8					Y		Y		1.04				N/A					ALUM. IS RESISTANT TO 212 DEG.F.
CROP-OILS	1	16	7			Y		Y		N/A				N/A					CARRIER FOR INSECTICIDES
CRUDE-&SALT-WATER	27					Y		Y		N/A				N/A					
CRUDE--HIGH-SULFUR	37					Y		Y		N/A				N/A					
CRUDE-OIL	14	37				Y		Y		N/A				N/A				0.0004	
CRUDE-OIL-SOUR	37					Y		Y		N/A				N/A					
CRUDE-OIL-SWEET	14	37	8			Y		Y		N/A				N/A					
CUMEME	16	7	8			Y		Y		0.862				N/A					ALSO KNOWN AS ISOPROPYLBENZENE
CUPRIC-CHLORIDE	NR													N/A					ALUMINUM, CAST IRON OR STAINLESS STEEL GOOD
CUPROUS-CHLORIDE-SOLUTION	NR									2.39				N/A					ALUMINUM, CAST IRON OR STAINLESS STEEL GOOD
CUTBACK-ROCKHILL-7001	14	37				Y		Y		3.35				N/A					NOT RECOMMENDED
CUTBACK-ROCKHILL-7038	14	37				Y		Y		N/A				N/A					NOT RECOMMENDED
CUTTING-OILS	1	16	7			Y		Y		N/A				N/A					
CYCLOHEXANE	16	7	8			Y		Y		0.779				N/A					
CYCLOHEXANOL	16	7	8			Y		Y		0.94				N/A				0.0004	CLASS 16 & 7 RATED GOOD
CYCLOHEXANONE	16	7	8			Y		Y		0.948				N/A				0.0005	ALUMINUM/CAST IRON & STAINLESS STEEL
CYCLOHEXYLAMINE	8	7				Y		Y		0.8683				N/A					RATED GOOD ONLY
														N/A					PH WITH PRESENT IS > 10
														N/A					CLASS 8 PREFERRED
														N/A					CLASS 7 FUNCTIONALLY OK, BUT MAY CONTAMINATE
CYCLOHEXYLISOCYANATE	7	8				Y		Y		N/A				N/A					USE TEFLON
CYPRUS-SODIUM-SULFITE	8					Y		Y		N/A				N/A					CALGON 40%, DECOLORIZER 20%, CYPRUS 30%
DDT	NR									N/A				N/A					
DE-ICING-FLUID	14					Y		Y		1.115				N/A					TYPICALLY AN M47 STYLE METER
														N/A					RECOMMEND HI-TEMP ADJUSTER
														N/A					AIRCRAFT DE-ICING FLUID (ADF)
														N/A					TYPICALLY CONTAINS ETHYLENE GLYCOL W/WARM WATER
														N/A					BEWARE OF VITON LOW TEMP. AMBIENT CONDITIONS
DECANOIC-ACID	8	27	15	30		Y		Y		0.84				N/A					ALSO CALLED CAPRIC ACID OR DECYLIC ACID
														N/A					FORM OF CARBOXYLIC OR FATTY ACID
														N/A					CLASS 8 USE TEFLON INSERT BEARINGS
														N/A					SEE 'FATTY ACIDS' LISTING
DECYL-ALCOHOL	16	7	20	8		Y		Y		0.829				N/A					CLASS 20 USE STAINLESS STEEL TIMING GEARS
DEHYQUART-A	7	8				Y		Y		1.485				N/A					CETRONIUM CHLORIDE
														N/A					CETYL TRIMETHYL AMMONIUM CHLORIDE
DENATURED-ALCOHOL	16	7	20	8		Y		Y		N/A				N/A					CLASS 20 USE STAINLESS STEEL TIMING GEARS
														N/A					ALUMINUM GOOD. STAINLESS STEEL EXCELLENT
DEODORIZED-OIL	1	16	7			Y		Y		N/A				N/A					BUNA-N SEALS (NOT FOR HUMAN CONSUMPTION)
DESMODUR-W-METHYLENE	7	8				Y		Y		N/A				N/A					
DETERGENTS---SYNTHETIC	7	8				Y		Y		1.2				N/A					VISC. RANGE 100 TO 75000 SSU
DEXTROSE---STALEYDEX-130	3	14	37	8		Y		Y		N/A				N/A					CLASS 8 USE TEFLON INSERT BEARINGS
DI-N-PROPYLAMINE	8					Y		Y		0.72				N/A					AVOID DISSIMILAR METALS
														N/A					HIGHLY FLAMMABLE, SKIN IRRITANT
DIACETONE-ALCOHOL	16	7	20	8		Y		Y		0.94				N/A					CLASS 20 USE STAINLESS STEEL TIMING GEARS
														N/A					ALUMINUM EXCELLENT
														N/A					AIR ELIM. USE KALREZ/ARMALON SEALS

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOSE	SSU	COEFF OF EXPANSION	TEXT
	NR		BUNA	TEFLON	VITON	OTHER					
DIAMMONIUM-PHOSPHATE-AQUEOUS							1.61	N/A	N/A		SAME AS AMMONIUM PHOSPHATE DIBASIC NOT RECOMMENDED
DIBUTYL-PHTHALATE	16	7 8		Y			1.048	N/A	N/A	0.0004	SEE BUTYL PHTHALATE
DICEP--HERBICIDE	30	15 27 8		Y	Y		N/A	N/A	N/A	N/A	AIR ELIM. USE KALREZ/ARMALON SEALS HERBICIDE
											M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15. M-7 MAX. 60 GPM M-15 MAX. 90 GPM
DICHLOROBENZENE	7	8		Y	Y		1.458	N/A	N/A	N/A	CLASS 8 WITH TEFLON INSERT BEARINGS
DICHLOROBUTENE	8			Y							CARBON INSERT BEARING PLATES
DICHLOROETHANE	7	8		Y	Y		1.2554	N/A	N/A	N/A	SAME AS ETHYLENE DICHLORIDE
DICHLOROMETHANE	7	8		Y	Y		1.335	N/A	N/A	N/A	SAME AS METHYLENE CHLORIDE AVOID DISSIMILAR METALS
DICHLOROPROPENE	7	8		Y			1.23	N/A	N/A	N/A	
DICYCLOPENTADIENE	16	7 8		Y	Y		0.979	N/A	N/A	N/A	
DIESEL-FUEL	1	16 7	Y	Y	Y		0.85	1.5	33	0.0005	PACKING GLAND FLUOROGOLD BUSHING SWELLS WITH SULFUR BLEND USE LPG PACKING GLAND WITH STD NYLINER BEARING
											VISC. 1.5 CST AT 100F. 8 CST AT -4F
DIESEL-FUEL-#1	1	16 7	Y	Y	Y		0.85	1.5	33	0.0005	VISC. 1.5 CST AT 100F. 8 CST AT -4F
DIESEL-OIL-#2	1	16 7	Y	Y	Y		0.82	3	36	0.0005	BUNA SEALS MAY SWELL DUE TO ADDITIVES IN FUEL BUNA OK FOR STATIC SEALS IF TRAPPED IN MACHINED GROOVE METERING TEMPERATURE 290 DEG F
DIESEL-OIL--HEAVY-BLENDED	14	37		Y	Y		N/A	N/A	N/A	N/A	
DIETHANOLAMINE	7	8 16		Y	Y		1.092	N/A	N/A	0.0003	
DIETHYL-SULFATE	16	7 8		Y	Y		1.1803	N/A	N/A	N/A	
DIETHYLANILINE	7	8		Y	Y		0.959	N/A	N/A	N/A	OPERATE AT 80% MAXIMUM METER RATING
DIETHYLBENZENE	16	7 8		Y	Y		0.865	N/A	N/A	N/A	
DIETHYLENE-GLYCOL	1	16 7	Y	Y	Y		1.1184	N/A	N/A	0.0004	
DIETHYLENE-GLYCOL-MONOBUTYL	16	7 8		Y	Y		0.9536	N/A	N/A	0.0005	ETHER SAME AS BUTYL CARBITOL & DOWANOL DB
DIETHYLENE-GLYCOL-MONOETHYL	16	7 8		Y	Y		1.0272	N/A	N/A	0.0005	ETHER TRADE NAME CARBITOL SOLVENT
DIETHYLENE-TRIAMINE	7	8		Y	Y		0.954	N/A	N/A	0.0009	
DIETHYLHYDROXLAMINE	8	7		Y	Y		0.902	N/A	N/A	N/A	PH -8 IF H2O PRESENT CLASS 8 PREFERRED
											CLASS 7 FUNCTIONALLY OK BUT MAY CONTAMINATE USE TEFLON
											ALT NAME ETHANAMINE-N-ETHYL-N-HYDROXY
DIETHYLKETONE	16	7 8		Y	Y		0.816	N/A	N/A	0.0006	
DIFLUOROETHANE	10			Y	Y		0.922	0.247		0.0014	TEFLON SEALS RECOMMENDED AT LOW TEMPS OTHER NAMES: FREON 152a, REFRIGERANT 152a, GENETRON 152a TRADE NAME: DYMEL 152a (DUPONT)
											LIQUEFIED COLOURLESS GAS UNDER PRESSURE VAPOR PRESSURE: 87.98 PSI AT 77 F
DIISOBUTYL-KETONE	16	7 8		Y	Y		0.809	N/A	N/A	0.0005	ALUMINUM, CAST IRON OR STAINLESS STEEL EXCELLENT USE ALUMINUM OR CAST IRON WITH PURE PRODUCT USE STAINLESS STEEL IF MOISTURE IS PRESENT
DIISOBUTYLENE	16	7 8		Y	Y		0.7227				
DIISOCYANATE	7	8		Y	Y		N/A	N/A	N/A	N/A	PLASTICIZER
DIISODECYL-PHTHALATE-(DIDP)	16	7 8		Y	Y		0.966	21.4	108	0.0003	ALUMINUM GOOD, STAINLESS STEEL EXCELLENT
DIISOPROPYL-ETHER	16	7 8		Y	Y		0.723	N/A	N/A	N/A	SAME AS ISOPROPYL ETHER STAINLESS STEEL EXCELLENT
											USED AS A DYE INTERMEDIATE. SYNONYMS: AMINODIMETHYLBENZENE, AMINOXYLENE, XYLIDINE, DIMETHYLAMINO BENZENE
DIISOPROPYL-KETONE	16	7 8		Y	Y		N/A	N/A	N/A	N/A	
DIMETHYL-ACETAMIDE	16	7 8		Y	Y		0.9366	N/A	N/A	N/A	
DIMETHYL-ANILINE	8		N	Y	N						

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL		SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	15	27	8	8					
EPOXY-RESIN-MIX-(SEE-NOTES)					N/A	N/A	N/A	N/A	CONSIST OF: 5% MONO BUTYL 5% MONO HEXYL, 5% MONO ETHYL AND 30% EPOXY RESIN WITH 59.5% WATER
EPOXY-RESINS	15	27	8						CLASS 8 USE TEFLON INSERT BEARINGS
ERADICANE---HERBICIDE	30	15	27	8		10000	46500	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
									HERBICIDE
									M-5 USE CLASS 30...MAX. 25 GPM
									M-7 AND M-15 USE CLASS 15, M-7 MAX. 60 GPM
									M-15 MAX. 90 GPM
									CLASS 8 USE TEFLON INSERT BEARINGS
ETHANAMINE,N-ETHYL-N-HYDROXY									SEE DIETHYL-HDROXYLAMINE
ETHANE- LIQUID	10								N/A
ETHANOL	16	7	8						0.446
									0.804
									Y
									Y
									Y
ETHANOL-ALCOHOL-2-B	16	7	8			1	30	N/A	0.78
ETHANOL-ALCOHOL-SOLUTION	16	7	8			1	30	N/A	0.79
ETHANOL-CHLORIDE	NR								N/A
ETHANOLAMINE	7	8							0.689
ETHER	20	8							0.736
ETHOXYQUIN-(SEE-NOTES)	7	8							1.02
									NONEDIBLE ANIMAL FEED
ETHYL-ACETATE	16	7	20	8		1	30	0.0007	CLASS 20 USE STAINLESS STEEL TIMING GEARS
									GRADES: COMMERCIAL 85-88%, 95-98%; 99%
									CLASS 16 REQUIRES PRODUCT TO BE WATER FREE
ETHYL-ACETATE-&ORGANIC	8								AIR ELIM. USE KALREZ/ARMALON SEALS
ETHYL-ACETATE-(ANHYDROUS)	16	7	20	8					*ACETATE
ETHYL-ACRYLATE	8								STAINLESS STEEL GEARS,CARBON BEARINGS
ETHYL-ALCOHOL	16	7	20	8					ALUMINUM GOOD. STAINLESS STEEL EXCELLENT
									CLASS 20 USE STAINLESS STEEL TIMING GEARS
ETHYL-ALCOHOL-&DIESEL-FUEL	1	16	7	20					KALREZ OK, VITON POSSIBLY OK FOR STATIC SEALS
ETHYL-ALCOHOL-&WATER-SEE-NOTE	4	8							40-80% ETHYL ALCOHOL WITH 20-60% WATER OR, 60-80% ETHYL ALCOHOL WITH 20-40% WATER
ETHYL-ALCOHOL---SOLOX	16	7	8						50% ETHYL ALCOHOL, 50% SULFORATED ALKYLAROMATIC COMPOUND
ETHYL-ALCOHOL-50%-(SEE-NOTES)	7	8							CARBON BEARING PLATE INSERTS
ETHYLAMINE	7	4	8						*AMINETHANE" REF.
									CLASS 4 USE STAINLESS STEEL TIMING GEARS
									AVOID DISSIMILAR METALS
									ALSO SEE MONOETHYLAMINE
ETHYLBENZENE	16	7	8						N/A
ETHYLENE-ALCOHOL	16	7	8						N/A
ETHYLENE-CHLORIDE	7	8							ALUMINUM, CAST IRON OR STAINLESS STEEL EXCELLENT
ETHYLENE-DIAMINE	7	8							*SAME AS ETHYLENE DICHLORIDE
ETHYLENE-DIBROMIDE	8								AVOID DISSIMILAR METALS
ETHYLENE-DICHLORIDE	7	8							STAINLESS STEEL GOOD
ETHYLENE-GLYCOL	1	16	7	20					CLASS 20 USE STAINLESS STEEL TIMING GEARS
ETHYLENE-GLYCOL-99.99%-PURE	1	16	7	20					CLASS 20 USE STAINLESS STEEL TIMING GEARS
ETHYLENE-GLYCOL-MONOBUTYL	8	16	7						*ETHER
ETHYLENE-OXIDE	8	15							SAME AS BUTYL CELLOSOLVE
									MAGNETIC DRIVE REQUIRED
									HIGHLY FLAMMABLE - NO LEAKS TOLERATED
									PH=7

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	METER CLASS		BUNA	TEFLON	VITON					
ETHYLENE-VINYL-ACETATE	8			Y		N/A	1500	7000	N/A	
ETHYLENEDIAMINE-(QUADROL)	4	8	Y	Y		0.9	1	30	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
ETHYLHEXOIC-ACID	8			Y		0.9077	N/A	N/A	N/A	
FATTY-ACIDS	8	27 15 30		Y	Y	0.84	N/A	N/A	N/A	IF CLASS 27 SELECTED MILD CORROSION MAY OCCUR DEPENDING ON SPECIFIC FATTY ACID
FATTY-AMINE-(ASPHALT-ADDITIVE)	8		Y			0.96	800	4000	N/A	ALUMINUM CLASS 15 & 30 SHOULD NOT BE SPECIFIED IF FATTY ACID IS ANHYDROUS & BEING HANDLED AT THEIR BOILING POINT CLASS 08 USE TEFLON BEARING INSERT'S
FERRIC-CHLORIDE-(AQUEOUS)	NR					2.8	N/A	N/A	N/A	NOT RECOMMENDED
FERRIC-HYDROXIDE	NR					3.4	N/A	N/A	N/A	NOT RECOMMENDED
FERRIC-NITRATE	NR					1.684	N/A	N/A	N/A	STAINLESS STEEL EXCELLENT
FERRIC-SULFATE	NR					3.097	N/A	N/A	N/A	NOT RECOMMENDED
FERRIC-SULPHATE-ACID-40%	8		Y			2.1	N/A	N/A	N/A	NOT RECOMMENDED
FERROUS-CHLORIDE-(AQUEOUS)	NR					1.93	N/A	N/A	N/A	ALUMINUM EXCELLENT UP TO 10% CONCENTRATION
FERROUS-SULPHATE	8		Y	Y		1.89	N/A	N/A	N/A	AT 70 F STAINLESS STEEL GOOD
FERTILIZER--10-10-10	27	47		Y		N/A	N/A	N/A	N/A	
FERTILIZER--3-18-18	27	47		Y		N/A	N/A	N/A	N/A	
FERTILIZER--5-15-15	27	47		Y		N/A	N/A	N/A	N/A	
FERTILIZER-(SEE-NOTES)	8			Y		N/A	N/A	N/A	N/A	42.2% AMMONIA NITRATE; 32.7% UREA; 25.1% WATER
FERTILIZER-(SUSPENSIONS)	47	27		Y		N/A	N/A	N/A	N/A	CLASS 27 IS O.K. UP TO A 12% CLAY CONCENTRATION
FERTILIZER---OLIN-0-14-0	27	47		Y		N/A	N/A	N/A	N/A	12% TO 40% CONCENTRATION USE CLASS 47 FILL COVERS
FERTILIZER-10-34-0	27	47		Y		N/A	N/A	N/A	N/A	WITH GREASE-PLUG BLEED HOLES AND DERATE METER AS FOLLOWS: UP TO 30% OPERATE AT 60% OF RATED CAPACITY UP TO 40% OPERATE @ 30% OF RATED CAPACITY.
FERTILIZER-16-4-4	27	47		Y		N/A	N/A	N/A	N/A	
FERTILIZER-4-10-10	27	47		Y		N/A	N/A	N/A	N/A	
FERTILIZER-9-18-9	27	47		Y		N/A	N/A	N/A	N/A	USED AS FIREFOAMING AGENT
FIRE-TROL-103	8			Y		1.025	50	260	N/A	PH-9.0 TO 9.5
FISH-EMULSION	8		Y	Y		N/A	N/A	N/A	N/A	USE UNPLATED ROTOR SLEEVES
FISH-OIL	3	14 37 8	Y	Y	Y	0.93	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
FLACK-SEED-OIL	3	14 37 8	Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
FLEXON	1	14 37		Y	Y	N/A	N/A	N/A	N/A	TRADEMARK FOR A SERIES OF PETROLEUM PROCESS OILS MAINLY USED AS COMPOUNDING AND EXTENDER OILS IN SYNTHETIC RUBBER AND RESINS.
FLUORINE	NR					1.3	N/A	N/A	N/A	NOT RECOMMENDED
FLUROSILICIC-ACID	NR					N/A	N/A	N/A	N/A	NOT RECOMMENDED
FLUX-(SEE-NOTES)	7	8		Y		N/A	N/A	N/A	N/A	USED IN ASPHALT MANUFACTURING
FORMALDEHYDE	4	20 8		Y		1.1	1	30	N/A	METERING TEMPERATURE 400 DEG F STEAM JACKET & HEAT EXTENSION
FORMALDEHYDE-MIXTURE	4	8		Y		N/A	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
FORMALIN	4	20 8		Y		0.82	1	30	N/A	CLASS 4 ALUMINUM GOOD TO 158 F (70C) 37 TO 50 % SOLUTIONS ARE COMMERCIALY AVAILABLE ALSO KNOWN AS FORMALIN
										CLASS 4 USE STAINLESS STEEL TIMING GEARS 40% FORMALDEHYDE, 7% WATER, 53% ALCOHOL
										CLASS 4 USE STAINLESS STEEL TIMING GEARS
										SEE FORMALDEHYDE
										CLASS 20 USE STAINLESS STEEL TIMING GEARS

LIQUID TO BE METERED	RECOMMENDED METER CLASS	RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
		BUNA	TEFLON	VITON	OTHER					
FORMATION-WATER	NR								FORMATION WATER MIGHT CONTAIN SOLIDS, WHICH CAN CAUSE GALLING AND FAILURE IN OUR PD METER. ELECTROMAGNETIC METER CAN BE USED FOR THIS APPLICATION.	
FORMIC-ACID	8		Y			1.22	N/A	N/A		
FREON-11-B	10		Y	Y		1.48	60	300	N/A	
FREON-ANHYDROUS--11	10	Y	Y	Y		1.56	N/A	N/A	0.0008	
FREON-ANHYDROUS--112	10	Y	Y	Y		1.46	N/A	N/A	0.0007	
FREON-ANHYDROUS--113	10	Y	Y	Y		N/A	N/A	N/A	N/A	
FREON-ANHYDROUS--114	10	Y	Y	Y		N/A	N/A	N/A	N/A	
FREON-ANHYDROUS--114B2	10	Y	Y	Y		N/A	N/A	N/A	N/A	
FREON-ANHYDROUS--115	10	Y	Y	Y		N/A	N/A	N/A	N/A	
FREON-ANHYDROUS--12	10	Y	Y	Y		1.31	N/A	N/A	0.0014	
FREON-ANHYDROUS--13	10	Y	Y	Y		N/A	N/A	N/A	N/A	
FREON-ANHYDROUS--13B1	10	Y	Y	Y		N/A	N/A	N/A	N/A	
FREON-ANHYDROUS--14	10	Y	Y	Y		N/A	N/A	N/A	N/A	
FREON-ANHYDROUS--21	10	Y	Y	Y		N/A	N/A	N/A	0.0018	
FREON-ANHYDROUS--22	10	Y	Y	Y		1.19	N/A	N/A	0.0017	
FREON-ANHYDROUS--C318	10	Y	Y	Y		N/A	N/A	N/A	N/A	
FREON-ANHYDROUS-113	10	Y	Y	Y		1.56	N/A	N/A	0.0007	
FREON-R134A	10	Y	Y	Y					REPLACES R12 REFRIGERANT BUNA BETTER AT LOW TEMP. THAN VITON	
FREON-R410A	10	Y	Y	Y		1.066			REPLACES R22 REFRIGERANT	
FUEL-OIL-#1	1	16	20	7	Y	Y	1.9	34	0.0005	ALSO CALLED PURON AND SUVA 9100 CLASS 20 USE STAINLESS STEEL TIMING GEARS
FUEL-OIL-#2	1	16	20	7	Y	Y	0.87	36	0.0005	ALSO SEE DIESEL APPLICATIONS
FUEL-OIL-#3	1	16	20	7	Y	Y	0.9	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
FUEL-OIL-#4	1	16	20	7	Y	Y	0.95	105	0.0005	NO INFO. AVAILABLE ON VISCOSITY
FUEL-OIL-#5	1				Y	Y	0.9	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
FUEL-OIL-#6	1				Y	Y	0.97	250	0.0005	CLASS 2 OR 14 MAY ALSO BE USED VISC. VARIES FROM 10-55 CP (60-230 SSU)
FUEL-OIL-(BOILER-FEED-BYPASS)	14	37			Y	Y	N/A	N/A	N/A	REPLACE PLASTIC GEARS WITH METAL IN M-5
FUEL-OIL--RESIDUAL	14	37			Y	Y	N/A	500	N/A	CLASS 2 OR 14 MAY ALSO BE USED
FUEL-OIL-WITH-3.5%-SULFUR	37				Y	Y	N/A	N/A	N/A	
FULTIME-HERBICIDE	30	15	27	8	Y	Y	1.155	260	1280	PREMIX OF TOPNOTCH AND ATRAZINE CONTAINS ACETOCHLOR
FUMIGANT--INSECTICIDE	30	15	27	8	Y	Y	N/A	N/A	N/A	DE-RATE BASED ON TEFLON INSERT BEARINGS
FUNDAL	8				Y	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
FURAN-RESIN	8				Y	Y	0.938	N/A	N/A	ALUMINUM EXCELLENT
FURFURAL-(ANHYDROUS)	16	7	8		Y	Y	1.1598	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
FURFURYL-ALCOHOL	16	7	20	8	Y	Y	1.1285	N/A	N/A	NO INFO. AVAILABLE ON VISCOSITY
GASOHOL-10%-ETHANOL	1	16	7	20	N	Y	0.72		0.0006	IF THE CONTENT OF ETHANOL IS MORE THAN 15% USE CLASS 7, CAST IRON.
GASOLINE--AVIATION	2				Y	Y	0.71	30	0.0005	SOFT MATERIALS SUCH AS ALUMINUM MAY DISSOLVE IN THE FUEL WHEN THEY COME IN CONTACT WITH ETHANOL.
GASOLINE--LEADED	1	16	7	20	Y	Y	N/A	N/A	N/A	BUNA-N IS NOT RECOMMENDED FOR SEALS, BUT OK IN GASKETS
GASOLINE--MOTOR	1	16	7	20	Y	Y	N/A	N/A	N/A	ALSO SEE AV GAS AND JET FUELS
GASOLINE--NATURAL	1	16	7		Y	Y	N/A	N/A	N/A	
GASOLINE--NATURAL-SEE-NOTES	10				Y	Y	N/A	N/A	N/A	CONSISTS OF: 23% ETHANE, 39% PROPANE, 16% GASOLINE AND 20% BUTANE
GASOLINE--POLYMERIZED	1	16	7		Y	Y	N/A	N/A	0.0006	CLASS 2 MAY ALSO BE USED
GASOLINE--SOUR	1	16	7		Y	Y	N/A	N/A	0.0006	CLASS 2 MAY ALSO BE USED

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	1	2	BUNA	TEFLON	VITON					
GASOLINE-UNLEADED	1	16 7 20	Y	Y	Y	0.75	1.5	33	0.0006	PH=7 ADDITIVE IS UP TO 10% ETHANOL OR UP TO 15% MTBE CLASS 8 USE TEFLON INSERT BEARINGS
GLUCOSE	3	14 37 8	Y	Y	Y	1.54	N/A	N/A	N/A	GRAPE SUGAR AND CORN SUGAR CLASS 8 USE TEFLON INSERT BEARINGS
GLUE-(SEE-NOTES)	15	27 8		Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
GLYCERIN--CRUDE	16	7 8	Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
GLYCERIN-OR-GLYCEROL	16	7 20 8	Y	Y	Y	1.265	N/A	N/A	0.0003	CLASS 20 USE STAINLESS STEEL TIMING GEARS
GLYCEROL-MONOSTEARATE	15	8	Y	Y	Y	0.97	29	145	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
GLYCOL	1	16 7	Y	Y	Y	1.1155	N/A	N/A	N/A	SAME AS ETHYLENE GLYCOL
GLYCOL-&WATER-SOLUTION	1	14 16 4	Y	Y	Y	1.115	N/A	N/A	N/A	CLASS 1 OR 16 FOR WTS. & MEAS. APPLICATIONS
GLYCOL-70-90%-W/30-10%-WATER	1	16 14 4	Y	Y	Y	1.115	N/A	N/A	N/A	FOR OVER 180 F USE CLASS 14 OR 04 CLASS 1 OR 16 FOR WTS. & MEAS. APPLICATIONS
GLYCOL-ESTER-OF-(SEE-NOTES)	16	7 8	Y	Y	Y	N/A	24	120	N/A	FOR OVER 180 F USE CLASS 14 OR 04 BENZOIC ACID & ISOBUTYRIC ACID
GLYCOL-ETHERS-AND	7	8	Y	Y	Y	N/A	N/A	N/A	N/A	PETROLUEN NAPHTHA CHLORINATED SOLVENTS AND KETONES ALL PRODUCTS THROUGH ONE METER
GLYCYL-ALCOHOL	16	7 8	Y	Y	Y	1.2653	N/A	N/A	N/A	CARBON INSERT BEARING PLATES ALSO SEE GLYCERIN & GLYCEROL
GLYFOS	8		Y	Y	Y	1.16	43	230		GLYPHOSATE HERBICIDE PH=4.5
GRAIN-ALCOHOL	16	7 8	Y	Y	Y	1.2	N/A	N/A	0.0005	DO NOT USE WITH IRON, GALVANIZED, OR UNLINED STEEL CL 8 USE TEFLON INSERT BEARINGS
GRAPE-&APPLE-CONCENTRATE	8		Y	Y	Y	N/A	N/A	N/A	N/A	SAME AS ETHYL ALCOHOL
GRAPE-JUICE	8		Y	Y	Y	N/A	N/A	N/A	N/A	
GRAPE-JUICE-CONCENTRATE	8		Y	Y	Y	N/A	N/A	N/A	N/A	
GRAPEFRUIT-JUICE	8		Y	Y	Y	N/A	N/A	N/A	N/A	
GRAPEFRUIT-JUICE-CONCENTRATE	8		Y	Y	Y	N/A	N/A	N/A	N/A	
GREASE	1	14	Y	Y	Y	N/A	N/A	N/A	N/A	
GREEN-SULFATE-LIQUOR	8		Y	Y	Y	N/A	N/A	N/A	N/A	VISCOSITY @ 70 C (158 F): 7000 Centipoise
HAZELNUT-PASTE	8		Y	Y	Y	1.1				6,364 Centistokes
HEPTANE	16	7 8	Y	Y	Y	0.6968	N/A	N/A	0.0006	FLAMMABLE LIQUID (USED AS SOLVENT)
HEXANE	16	7 8	Y	Y	Y	0.6734	0.3	29	0.0007	PH=9 (5% CONCENTRATION IN DI WATER)
HYDRASOL-LW18Z	1		Y	Y	Y	0.892	43	225		MINING FLUID EMULSION CONCENTRATE EMULSION RATIO 3 TO 5 PERCENT
HYDRAULIC-OIL	1	16 7	Y	Y	Y	N/A	N/A	N/A	N/A	
HYDROCARBON-RESIN-265-DEGREE-F	14	37	Y	Y	Y	N/A	N/A	N/A	N/A	NOT RECOMMENDED
HYDROCHLORIC-ACID	NR					1.19	N/A	N/A	N/A	USE TEFLON SEALS AND INSERT BEARINGS PH LESS THAN 1 (ONE) USE ONLY IF SS316 PUMPS, PIPING, TANKS, ETC. ARE OK
HYDROFLUORO-ZIRCONIC-ACID	8		Y	Y	Y					NOT RECOMMENDED MUST BE PASSIVATED AS PER DUPONT SPECIFICATIONS
HYDROGEN-(CRYOGENIC-LIQ.)	NR					N/A	N/A	N/A	N/A	
HYDROGEN-PEROXIDE	8		Y	Y	Y	N/A	N/A	N/A	N/A	STAINLESS STEEL 316 IS RATED AS A CLASS 2 MATERIAL ON HYDROGEN PEROXIDE:THIS MEANS SHORT-TIME TRANSFER CONTACT WITH PEROXIDE.
INK--CARBON-BLACK-(SEE-NOTES)	37		Y	Y	Y	N/A	N/A	N/A	N/A	GLANDLESS PIG. ORING SEALS & FIBREGLASS/TEFLON BRGS. 20% RESIN , 20% CARBON BLACK , 60% MINERAL OIL OPERATION AT 30% OF RATED CAPACITY OR LESS RECOMMENDED FOR EXTENDED SERVICE LIFE...VISCOSITY MAY VARY.DO
INK--NEWSPAPER-PRINTING	37		Y	Y	Y	N/A	N/A	N/A	N/A	NOT EXCEED 8 PSI PRESSURE LOSS
INK--PRINTING	1		Y	Y	Y	N/A	N/A	N/A	N/A	SEE INK - CARBON BLACK OPERATION AT 30% OF RATED CAPACITY OR LESS RECOMMENDED FOR EXTENDED SERVICE LIFE
										VISCOSITY MAY VARY ...DO NOT EXCEED 8 PSI PRESSURE LOSS

LIQUID TO BE METERED	RECOMMENDED METER CLASS	RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
		BUNA	TEFLON	VITON					
INK--ROTO-GRAVURE	1		Y		N/A	N/A	N/A		
INK--VARNISH	37		Y		N/A	N/A	N/A	CONTAINS SOLVENTS AND PIGMENT OPERATION AT 30% OF RATED CAPACITY OR LESS RECOMMENDED FOR EXTENDED SERVICE LIFE	
INK-PUBLISHERS-GRAVURE	1		Y	Y	N/A	N/A	N/A	SEE INK - ROTOGRAVURE	
INSECTI-SOL	16 7 8		Y	Y	0.784	N/A	N/A	CARBON BEARING PLATE INSERTS	
IODINE	NR				4.98	N/A	N/A	HARD CHROME ROTOR SLEEVES	
IRON-OXIDE-SLURRY	NR				N/A	N/A	N/A	NOT RECOMMENDED	
ISO-BUTANE-LIQUID	10	Y	Y	Y	0.56	N/A	N/A	NOT RECOMMENDED	
ISO-BUTANOL	16 7 8	Y	Y	Y	0.806	N/A	0.0006	ALUMINUM EXCELLENT.	
								SAME AS: ISOBUTYL ALCOHOL	
ISO-BUTYL-ACETATE	16 7 8		Y		0.8685	N/A	0.0006		
ISO-BUTYL-ALCOHOL	16 7 8	Y	Y	Y	0.806	N/A	0.0005	ALUMINUM EXCELLENT.	
								SAME AS ISO-BUTANOL*	
ISO-BUTYL-KETONE	16 7 8		Y		N/A	N/A	N/A		
ISO-HEXANOL	16 7 8	Y	Y	Y	0.818	N/A	N/A		
ISO-PHORONE	16		Y	Y	0.9229	2.62	N/A	TEFLON AND EPDM SEALS ARE GOOD	
								KALREZ RECOMMENDED FOR T>70 F	
ISOBUTYL-ISOBUTYRATE	16 7 8		Y		0.857	N/A	N/A	TOXIC BY INHALATION	
ISOCYANATE	8		Y	Y	1.2	N/A	N/A	ALSO SEE TOLUENE DIISOCYANATE	
								VISCOSITY FROM 38 TO 750 SSU	
								ISOCYANATES ARE SLIGHTLY CORROSIVE TO COPPER AND ALUMINUM.	
								COPPER, ZINC, AND IRON ALLOYS CAUSE PRODUCT DETERIORATION	
ISOCTANE	1 16 7		Y	Y	0.6919	N/A	N/A		
ISOPARAFFINIC-SOLVENT	8	Y	Y	Y	0.82	9	60	PETROLEUM DRY CLEANING SOLVENT	
								USE CARBON BEARINGS AS TEFLON SWELLS	
ISOPENTANE	10		Y	Y	0.6196	N/A	N/A		
ISOPHORONE-DIISOCYANATE	7 8		Y	Y	1.06	15	80	PRODUCT NAME IS VESTANAT	
ISOPROPANOL	7 8	Y	Y	Y	0.7863	N/A	N/A	UP TO 90% CONCENTRATION AND 70 F ALUMINUM GOOD	
								LEGAL NAME FOR ISOPROPYL ALCOHOL	
								EVIDENCE OF GALVANIC CORROSION ON ALUMINUM IN CONTACT WITH CHROMIUM COATING (ARMOLLOY) IN PRESENCE OF ISOPROPYL ALCOHOL.	
ISOPROPANOLAMINE	16 7 8		Y		0.8619	N/A	N/A		
ISOPROPYL-ACETATE	16 7 8		Y	Y	0.87	1	30	0.0007	
ISOPROPYL-ALCOHOL	7 8	Y	Y	Y	0.8	2	34	0.0005	
								SAME AS ISOPROPANOL	
								EVIDENCE OF GALVANIC CORROSION ON ALUMINUM IN CONTACT WITH CHROMIUM COATING (ARMOLLOY) IN THE PRESENCE OF ISOPROPYL ALCOHOL	
ISOPROPYL-BENZENE	16 7 8		Y	Y	0.862	N/A	N/A		
ISOPROPYLAMINE	8 7		Y	Y	0.688	N/A	N/A	SAME AS CUMENE	
JET-A	2	Y	Y	Y	0.85			COMMERCIAL AIRLINE FUEL	
								FREEZE POINT -40 F	
								ALSO SEE JET-A1 FUEL	
JET-A1	2	Y	Y	Y	0.804	3.5	37	COMMERCIAL AIRLINE FUEL	
								FREEZE POINT -53 F	
								ALSO SEE JET-A FUEL	
JET-B	2	Y	Y	Y	0.775			NO INFO. AVAILABLE ON COEFF. OF THERMAL EXPANSION	
								ALSO CALLED NATO F40 AND JP4.	
								BLEND OF GASOLINE/KEROSENE.	
								FREEZE POINT -77 F.	
								CONTAINS ANTI-STATIC ADDITIVE FOR FIRE SAFETY.	
								NO INFO. AVAILABLE ON FIELDS 6-8	
JET-JP4	2	Y	Y	Y	0.775			SEE JET-B	
								NO INFO. AVAILABLE ON FIELDS 6-8	
JET-JP8	2	Y	Y	Y	0.81	8	50	ALSO CALLED NATO F-34.	
								SIMILAR TO JET-A1, BUT CONTAINS ICING, CORROSION, AND ANTI-STATIC ADDITIVES.	
								NO INFO. AVAILABLE ON COEFF. OF THERMAL EXPANSION	

LIQUID TO BE METERED		RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
		16	7	20	BUNA	TEFLON	VITON					
KEROSENE-K1	1	16	7	20	Y	Y	Y	0.8	2	34	0.0005	CL-20 USE SS GEARS
KETCHUP	8					Y	Y	N/A	N/A	N/A	N/A	STAINLESS STEEL EXCELLENT NO APPLICATION IF FOR HUMAN CONSUMPTION
KRONITEX--SEE-NOTES	7	8				Y		N/A	N/A	N/A	N/A	TRADE NAME FOR: TRICRESYL PHOSPHATE
LACQUER	14	37	15	27		Y	Y	0.9	N/A	N/A	N/A	VISCOSITY RANGE FROM 100 TO 100,000 SSU OPERATION AT REDUCED FLOW RATES RECOMMENDED CONSULT FACTORY FOR METER SIZE BASED ON FLOW AND VISCOSITY
LACTAM	8					Y		N/A	N/A	N/A	N/A	
LACTOL-SPIRITS	16	7	8			Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LANOLIN	3	14	37	8	Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LARD	3	14	37	8	Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LARD-OIL	3	14	37	8	Y	Y	Y	0.915	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LASSO--HERBICIDE	30	15	27	8	Y	Y	Y	N/A	N/A	N/A	N/A	M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15, M-7 MAX. 60 GPM M-15 MAX. 90 GPM
LASSO-ME--HERBICIDE	30	15	27	8		Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS HERBICIDE
												M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15, M-7 MAX. 60 GPM
												M-15 MAX. 90 GPM
												CLASS 8 USE TEFLON INSERT BEARINGS
LATA--AKLALINE	27	8			Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LATEX	15	27	8		Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LATEX-(AMMONIA-FORMALDEHYDE)	15	27	8		Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LATEX--ADDITIVE-FOR-CONCRETE	15	27	8		Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LATEX-EMULSIONS	15	27	8		Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS EXAMPLE ROHM & HAAS AC-234
												SHEN SENSITIVE LIQUID...SEE ICC BULLETIN 271 WHEN SELECTING CLASS 8 SPECIFY THE INSERT BEARINGS
												EXTRA DRAIN HOLES IN COVERS RECOMMENDED FOR FLUSHING
												OPERATION AT 3RD OF RATED CAPACITY OR LESS RECOMMENDED
LAURIC-ACID	4	8			Y	Y	Y	0.833	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
LC-40-RHOPLEX	15	27	8		Y	Y	Y	1.07	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LEAD-ACETATE-SOLUTION	8				Y	Y	Y	2.5	N/A	N/A	N/A	RAW MATERIAL FOR PAINT
LEAD-OCTATE	15	8			Y	Y	Y	N/A	N/A	N/A	N/A	
LEMON-JUICE	8				Y	Y	Y	N/A	N/A	N/A	N/A	
LIGNIN-SULFONATE	1				Y	Y	Y	1.2	2000	10000	N/A	WOOD MOLASSES D(+)-XYLOSE
LIGNUM-SULPHONATE-(SEE-NOTES)	1				Y	Y	Y	1.525	N/A	N/A	N/A	
LIME-SLURRY-35%	7	8			Y	Y	Y	N/A	N/A	N/A	N/A	
LINEAR-ALKYLBENZENE	16				N	Y	Y	0.854	18	N/A	0.00053	
LINEARALKYLBENZENE	16				N	Y	Y	0.854	18	N/A	0.00053	
LINSEED-OIL	1	14	37		Y	Y	Y	0.95	N/A	N/A	N/A	VISC. 1000 TO 7500 SSU IN ITS RAW OR REFINED STATE DO NOT EXCEED 4 PSI PRESSURE LOSS ON CLASS 27 OR 8
LIQUID-FEED	37	27	8		Y	Y	Y	1.2	N/A	N/A	N/A	VISCOSITY MAY EXCEED 100,000 SSU...SOME LIQUID FEEDS ARE VERY ABRASIVE- EXAMPLE PURINA'S SUPPER LIX WHICH REQUIRES EXTRA DRAINS IN TOP OF COVERS, PLUG BLED HOLES IN HOUSING & COVERS FILLED WITH EDIBLE GREASE BY CUSTOMER DO NOT EXCEED 4 PSI PRESSURE LOSS ON CLASS 27 & 8 SEE TEXT NOTES ON "LIQUID FEED" REGARDING VISCOSITY AND POSSIBLE ABRASIVE CONTENT
LIQUID-FEED-SUPPLEMENT	37	27	8		Y	Y	Y	N/A	N/A	N/A	N/A	
LIQUID-GAS--NATURAL	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
LIQUID-NITROGEN-CRYOGENIC	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
LIQUID-OXYGEN-CRYOGENIC	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
LNG-LIQUIFIED-NATURAL-GAS	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
LOROX--HERBICIDE	30	15	27	8		Y	Y	N/A	N/A	N/A	N/A	HERBICIDE M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15, M-7 MAX. 60 GPM
												M-15 MAX. 90 GPM
												CLASS 8 USE TEFLON INSERT BEARINGS

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOSE	SSU	COEFF OF EXPANSION	TEXT
			BUNA	TEFLON	VITON	OTHER					
LUBE-OIL	1	14 37	Y	Y	Y		0.9	N/A	N/A	0.0004	VISC. VARIES 1000-3500 SSU (200-730 CP)
LUBRICATING-OILS--REFINED	1	14 37	Y	Y	Y		0.9	N/A	N/A	0.0004	VISC. VARIES 1000-3500 SSU (200-730 CP)
LYE ---POTASSIUM-HYDROXIDE	37	7 8		Y			N/A	N/A	N/A	N/A	STAINLESS STEEL EXCELLENT AVOID DISSIMILAR METALS
MAGNESIUM-CHLORIDE-AQUEOUS	8		Y	Y	Y		1.56	N/A	N/A	N/A	M3CL2 6H2O
MAGNESIUM-HYDROXIDE-SOLUTION	37	7 20 8		Y	Y		2.36	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
MAGNESIUM-NITRATE-(AQUEOUS)	8		Y	Y	Y		1.46	N/A	N/A	N/A	CAST IRON & STAINLESS STAINLESS STEEL EXCELLENT UP TO 50% CONCENTRATION AND 70 F. ALUMINUM GOOD AVOID DISSIMILAR METALS
MAGNESIUM-SULFATE-(EPSOM)-SALTS	4	7 20 8	Y	Y	Y		1.678	N/A	N/A	N/A	AVOID DISSIMILAR METALS UP TO 70% CONCENTRATION & 200 F. ALUMINUM EXCELLENT
MALATHION-PESTICIDE	8	15 30		Y			1.2315				CAST IRON EXCELLENT IN ALL CONCENTRATIONS PH 7.0
MALEIC-ACID	8			Y	Y		1.59	N/A	N/A	N/A	
MALEIC-ANHYDRIDE	15	8		Y	Y		0.934	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS 36 SSU AT 168 DEGREES F.
MANGANESE-CHLORIDE	8			Y			2.98	N/A	N/A	N/A	ALUMINUM EXCELLENT CONCENTRATION NO MORE THAN 20% AND 70 F. OTHERWISE
MANGANESE-SULFATE	7	8		Y	Y		2.107	N/A	N/A	N/A	USE STAINLESS STEEL M3NCL2
MAYONNAISE	8			Y			N/A	2000	9400	N/A	
MDI	8			Y	Y		1.197	N/A	N/A	N/A	METHYLENE DIPHENYLMETHANE, ISOCYANATE, DI-PARA-PHENYLENE
MELAMINE-&-FORMALDEHYDE	7	8		Y			1.573	N/A	N/A	N/A	ISOCYANATES ARE SLIGHTLY CORROSIVE TO COPPER AND ALUMINUM. COPPER, ZINC, AND IRON ALLOYS CAUSE PRODUCT DERIORATION.
MELAMINE-FORMALDEHYDE-RESIN-W/	27	8		Y			1.573	N/A	N/A	N/A	TRADE NAME: MONDUR M (BAYER)
MELAMINE-RESINS	27	8		Y			1.573	N/A	N/A	N/A	FORMALIN CLASS 8 USE TEFLON INSERT BEARINGS
MERCAPTAN	16	8	Y	Y			0.85	3	36	N/A	CLASS 8 USE TEFLON INSERT BEARINGS NOW REFERRED TO AS THOLS IN COMPOUNDS
MERCURIC-CHLORIDE-(AQUEOUS)	NR			Y			5.44	N/A	N/A	N/A	NOT RECOMMENDED
MERCURIC-CYANIDE-(AQUEOUS)	NR			Y			4.01	N/A	N/A	N/A	NOT RECOMMENDED
MERCUROUS-NITRATE, HYDRATED	NR			Y			4.785	N/A	N/A	N/A	NOT RECOMMENDED
METACETONE	16	7 8		Y			0.816	N/A	N/A	N/A	SAME AS DIETHYL KETONE
METHANE	10			Y	Y		0.554	N/A	N/A	N/A	
METHANOIC-ACID	8			Y			1.22	N/A	N/A	N/A	SAME AS FORMIC ACID
METHANOL	16	7 20 8	Y	Y	Y	Y	0.79	1	30	0.0007	SAME AS METHYL-ALCOHOL ASSUMES NO WATER PRESENT ... ONLY METHANOL KALREZ OK, VITON NOT RECOMMENDED
METHANOL/WATER-MIXTURE	20	8	Y	Y	Y						SAME AS METHYL-ALCOHOL AVOID DISSIMILAR MATERIALS
METHOXYPROPANOL	16	7 8	Y	Y	Y		0.924	2.21			CLASS 20 USE STAINLESS STEEL TIMING GEARS VITON SEALS NOT RECOMMENDED SAME AS METHYL ALCOHOL/WATER MIXTURE AVOID DISSIMILAR MATERIALS
METHYL-ACETATE	16	7 8		Y			0.9243	N/A	N/A	0.0007	OTHER NAMES: 1-METHOXY-2-PROPANOL, PROPYLENE GLYCOL METHYL ETHER, PGME, ALPHA ISOMER.
METHYL-ACETYLENE-PROPANOL	16	10 7 8		Y			0.7				OXYGENATED SOLVENT. FLAMMABLE. PRODUCT FAMILY: GLYCOL ETHER.
METHYL-ACRYLATE	4	8		Y			0.96	1	30		BUNA & VITON SEALS NOT RECOMMENDED BOILING POINT -23C OR -9F METHYL ESTER OF ACRYLIC ACID CLASS 4 USE SS316 TIMING GEARS

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	16	7	20	8	BUNA	TEFLON					
METHYL-ALCOHOL					Y		0.7924	1	30	0.0007	ASSUMES NO WATER PRESENT... ONLY METHYL-ALCOHOL KALREZ OK. VITON NOT RECOMMENDED SAME AS METHANOL AVOID DISSIMILAR MATERIALS CLASS 20 USE STAINLESS STEEL TIMING GEARS VITON SEALS NOT RECOMMENDED SAME AS METHANOL/WATER MIXTURE AVOID DISSIMILAR MATERIALS CLASS 20 USE STAINLESS STEEL TIMING GEARS
METHYL-ALCOHOL/WATER-MIXTURE	20	8		Y		Y					ALSO CALLED CHLOROMETHANE VISCOSITY .28 Cp AT -20 C (-4 F) DO NOT USE ANY ALUMINUM COMPONENTS SAME AS 1,1,1-TRICHLOROETHANE ALSO KNOWN AS MEK. EP OR EPDM SEALS ARE THE MOST COMPATIBLE. CONSISTS OF: 55% FORMALDEHYDE, 35% METHANOL, AND 10% WATER SAME AS PROPYLENE GLYCOL
METHYL-BROMIDE	7	8				Y	1.73	N/A	N/A	N/A	
METHYL-CELLOSOLVE	8					Y	0.9663	N/A	N/A	N/A	
METHYL-CHLORIDE	7	8				Y	0.92	0.28	N/A	N/A	
METHYL-CHLOROFORM	7	8				Y	1.325	N/A	N/A	N/A	
METHYL-DIISOCYANATE	7	8				Y	N/A	N/A	N/A	N/A	
METHYL-ETHYL-KETONE	16	7	8			Y	0.82	1	5	0.0007	
METHYL-FORMCEL-(SEE-NOTES)	7	8				Y	N/A	N/A	N/A	N/A	
METHYL-GLYCOL	1	16	7			Y	1.038	N/A	N/A	N/A	
METHYL-ISOBUTYL-KETONE-(MIBK)	16	7	8			Y	0.801	N/A	N/A	N/A	
METHYL-METHACRYLATE	16	8				Y	0.94	6	30	N/A	USE STAINLESS STEEL TIMING GEARS TRADE NAME FOR: ETHYLENE GLYCOL MONOMETHYL ETHER
METHYL-OXITOL	7	8				Y	0.9663	N/A	N/A	N/A	
METHYL-PENTANE	16	7	8			Y	0.65	0.3	29	0.0007	ALSO CALLED ISOHEXANE BUNA AND VITON EXCELLENT TO 70 F FLAMMABLE LIQUID (USED AS SOLVENT)
METHYL-SALICYLATE	1	2	3			Y	1.18	N/A	N/A	N/A	
METHYL-T-BUTYL-ETHER	16	7	8			Y	0.74				USE STAINLESS STEEL GEARS AND FITTINGS EXTREMELY FLAMMABLE !! USE NON-SPARK TOOLS & EQUIPMENT MTBE IS MADE FROM ISOBUTYLENE & METHANOL PROCESSING GASOLINE AND PETROLEUM FUEL ADDITIVE
METHYLAMYL-ALCOHOL	16	7	8			Y	0.8079	N/A	N/A	0.0005	
METHYLBENZENE	16	7	8			Y	0.866	N/A	N/A	N/A	SAME AS TOLUENE PRODUCT MUST BE FREE OF WATER AVOID DISSIMILAR METALS
METHYLENE-CHLORIDE	7	8				Y	1.32	0.41		0.0008	
METHYLENE-CHLORIDE-80%,-20% H2O	7	8				Y	N/A	N/A	N/A	N/A	MUST USE INHIBITOR TO LIMIT FORMATION OF HYDROCHLORIC ACID BY HYDROLYSIS
METHYLENE-CHLORIDE-MIX-NOTES	7	8				Y	1.335	1	5	N/A	CONSISTS OF: 80% METHYLENE CHLORIDE, 15% METHYL ALCOHOL AND 5% ACETONES, BUTYL ALCOHOL, ETC.
METHYLENE-DICHLORIDE	7	8				Y	1.335	1	5	N/A	CARBON BEARING PLATE INSERTS SEE METHYLENE CHLORIDE AVOID DISSIMILAR METALS
METHYLENE-DIPHENYL	7	8				Y	N/A	N/A	N/A	N/A	HERBICIDE (SEE DUAL AND BICEF)
METOLACHLOR	30	15	27	8		Y					M-5 USE CLASS 30 ... MAX 25 GPM M-7 AND M-15 USE CLASS 15: M-7 MAX 60 GPM M-15 MAX 90 GPM
MICRO-CRYSTALLINE-WAX-SEE-NOTE	16	7	8			Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS CONTAINS: 50% NAPHTHA & 50% MICRO CRYSTALLINE WAX
MINERAL-OIL	1	3	7	8		Y	0.85	N/A	N/A	N/A	IF USED IN FOOD PROCESSING SELECT CLASS 3 OR 8 VISC. FROM 100 TO SEVERAL THOUSAND SSU.
MINERAL-SEAL-OIL	1	16	7			Y	N/A	N/A	N/A	N/A	
MINERAL-SPIRITS	16	7	20	8		Y	N/A	N/A	N/A	0.0006	DELIRIN OK WITH SOLVENTS ALSO KNOWN AS MTL
MINERAL-TURPENTINE-LUSH	16	7	8			Y	0.79	0.65	20	0.0006	CONCRETE ADDITIVE
MIRA-70	8					Y	1.2				PH 7-10 AND CONTAINS AMINES AND ACIDS
MOLASSES-(FOR-CATTLE-FEED)	37					Y	N/A	N/A	N/A	0.00043	

LIQUID TO BE METERED	RECOMMENDED METER CLASS	RECOMMENDED SEAL MATERIAL		SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
		BUNA	TEFLON					
MOLASSES-(SUPER-LIX:--NOTES	37		Y		N/A	N/A	0.00043	RALSTON PURINA) NEED EXTRA DRAIN PLUGS AND PLUGGED BLEED HOLES IN HOUSING
MOLASSES-CRUDE-MOTHERS-LIQUOR	37		Y	1.47	N/A	N/A	N/A	
MOLASSES-EDIBLE-BLACK-STRAP	3 14 37 8	Y	Y	1.47	N/A	N/A	0.00043	CLASS 8 USE TEFLON INSERT BEARINGS
MOLTEN-MALEIC	8		Y	1.32	N/A	N/A	N/A	NOT RECOMMENDED
MONOCHLOROACETIC-ACID	NR				N/A	N/A	N/A	SAME AS CHLOROBENZENE
MONOCHLOROBENZENE	7 8		Y	1.105	N/A	N/A	N/A	CAST IRON & STAINLESS STEEL GOOD
MONOCHLOROBENZENE-ORTHO-MF	7 8		Y	1.105	N/A	N/A	N/A	AND MONOCHLOROBENZENE ORTHO-R
MONOETHANOLAMINE	7 8		Y	0.689	N/A	N/A	0.0004	PRODUCT MUST BE FREE OF CHLORINE GAS AND H2O
MONOETHYLAMINE	7 4 8		Y	0.689	N/A	N/A	N/A	SAME AS: ETHANOLAMINE
MONOMER	15 8		Y	N/A	N/A	N/A	N/A	AVOID DISSIMILAR METALS
MORPHOLINE, 80%+/-40%	8 7		Y	0.994	N/A	N/A	N/A	ALSO SEE ETHYLAMINE & AMINOETHANE
MOTOR-OIL---RECLAIMED	14 37		Y	N/A	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
MTBE	16 7 8	Y	Y	0.74	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
MURIATIC-ACID	NR				N/A	N/A	N/A	PH -9 IF H2O PRESENT
N-PROPANOL-ALCOHOL	16 7 8	Y	Y	0.804	N/A	N/A	N/A	CLASS 8 PREFERRED
NALCO-9843	16	Y	Y	0.885	N/A	N/A	N/A	CLASS 7 FUNCTIONALLY OK BUT MAY CONTAMINATE
NAPHTHA	16 7 8	Y	Y	0.6	N/A	N/A	N/A	USE TEFLON
NAPHTHA-&-XYLENE	16 7 8	Y	Y	0.6	N/A	N/A	N/A	USE STAINLESS STEEL GEARS AND FITTINGS
NAPHTHA-ACID-(NAPHTHIC-ACID)	8		Y	N/A	N/A	N/A	N/A	EXTREMELY FLAMMABLE !! USE NON-SPARK TOOLS & EQUIPMENT
NAPHTHA-VM&P	16 7 8	Y	Y	0.6	N/A	N/A	N/A	PROCESSED FROM ISOBUTYLENE AND METHANOL
NAPHTHALENE	7 8	Y	Y	1.145	N/A	N/A	N/A	FULL NAME: METHYL-TERTIARY-BUTYL-ETHER
NAPHTHENIC-ACID	8		Y	2.165	N/A	N/A	N/A	GASOLINE AND PETROLEUM FUEL ADDITIVE
NATRIUM-CHLORIDE-SOLUTIONS	7 8	Y	Y	N/A	N/A	N/A	N/A	OBsolete NAME FOR HYDROCHLORIC ACID
NEODOL-25	16 7 8	Y	Y	0.657	N/A	N/A	N/A	NOT RECOMMENDED
NEOHXANE	16 7 8	Y	Y	1.066	N/A	N/A	N/A	*SAME AS N-PROPYL ALCOHOL
NEOPENTYL-GLYCOL	15 8		Y	N/A	N/A	N/A	N/A	COMBINATION OF ALCOHOLS, ALDEHYDES, AND ESTERS
NEOSOL---BLENDED-(SEE-NOTES)	16 7 8	Y	Y	N/A	N/A	N/A	N/A	ALUMINUM EXCELLENT, CAST IRON GOOD,
NICKEL-AMMONIUM-SULFATE	NR			1.92	N/A	N/A	N/A	PETROLEUM DERIVATIVE (SUN-ARTIC ACID [B])
NICKEL-CHLORIDE-(AQUEOUS)	8		Y	1.35	N/A	N/A	N/A	ALUMINUM EXCELLENT, CAST IRON GOOD,
NICKEL-NITRATE	8		Y	2.065	N/A	N/A	N/A	*SODIUM CHLORIDE
NICKEL-SULFATE-(AQUEOUS)	8		Y	1.2	N/A	N/A	N/A	TRADE NAME FOR A C2-C15 LINEAR, PRIMARY ALCOHOL
NITRIC-ACID	8		Y	1.5	N/A	N/A	N/A	HIGHLY FLAMMABLE, COMPONENT OF HIGH OCTANE
NITRIC-ACID-57%	8		Y	1.5	N/A	N/A	N/A	MOTOR AND AVIATION FUELS
NITRIC-ACID-63%	8		Y	1.5	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
NITRIC-ACID-69%	8		Y	1.5	N/A	N/A	N/A	MIBK, SOL-B, METHANOL AND ETHYL ACETATE
NITRIC-ACID-AQUEOUS-10-100%	8		Y	1.5	N/A	N/A	N/A	NOT RECOMMENDED
NITRIC-ACID-FUMING-(WHITE)	NR		Y	1.5	N/A	N/A	N/A	STAINLESS STEEL GOOD
NITROBENZENE	7 8		Y	1.1986	N/A	N/A	N/A	PITTING MAY OCCUR UNDER CERTAIN CONDITIONS
NITROGEN---LIQUID	NR		Y	N/A	N/A	N/A	N/A	PITTING MAY OCCUR UNDER CERTAIN CONDITIONS
NITROGEN-SOLUTION-32%	15	Y	Y	N/A	N/A	N/A	N/A	UP TO 40% CONCENTRATION AND 70 F

LIQUID TO BE METERED	RECOMMENDED METER CLASS	RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
		BUNA	TEFLON	VITON					
NITROGEN-SOLUTIONS-STRAIGHT	15	Y	Y	Y	N/A	N/A	0.0003	28% - 30% - 32% AND WATER	
NITROPROPANE-1-&-2	NR				1.003	N/A	0.0005	NOT RECOMMENDED	
NMP-N-METHYLPYRROLIDONE	8	N	Y	Y	1.03			ORGANIC SOLVENT COMPONENT OF LACQUER COATINGS, THINNERS, PAINT REMOVERS, SOLVENT CLEANERS, AND STRIPPER FOR PHOTO RESISTERS.	
								pH = 8-9.5	
								CARBON STEEL AND NICKEL EQUIPMENT ALSO SUITABLE FOR THIS APPLICATION.	
NONYLPHENOL	8		Y	Y	1.1	30	N/A	NONYLPHENOL ETHOXYLATED (NPE) COMMONLY USED AS SURFACTANT	
								CLASS 8 USE NON-PLATED SS316 SLEEVES	
NP-1	8 4	Y	Y	Y	0.93	145	715	USE CLASS 8 WITH CONCENTRATE AND DILUTE	
								USE CLASS 4 ONLY WITH DILUTE - 10% W/WATER	
O,O-DIETHYLO-(3,5,6)-NOTES	8		Y		N/A	N/A	N/A	SAPSTAIN CONTROL WOOD TREATMENT CHEMICAL	
								TRICHLORO-2-PYRIDYL PHOSPHOROTHIOATE IN XYLENE AND KEROSENE SOLVENTS	
OCTANOIC-ACID-(CAPRYLIC)	8		Y	Y	0.9105	N/A	N/A	USE STEEL CASE AND/OR CAST IRON FOR FIRE APPROVAL	
OCTANOL	16 7 8		Y	Y	0.83	6.27	45	SAME AS 2-ETHYL HEXANOL	
								USE STEEL CASE AND/OR CAST IRON FOR FIRE APPROVAL	
OCTYL-ALCOHOL	16 7 8		Y	Y	0.83	6.27	45	SAME AS 2-ETHYL HEXANOL	
								TRADE NAME: WICHANOL 155	
OCTYLATAMITATE	8		Y		N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
OCTYLPHENOXY-POLYETHOXYETHANOL	15 8	Y	Y	Y	1.06	N/A	N/A	A DETERGENT - METERING WATER, SOYBEAN OIL AND ANIMAL OIL THROUGH SAME METER (EQUIVALENT TO SAE 50 WEIGHT)	
								METERING TEMPERATURE 350 DEG F, 100-200 SSU	
OIL-&-WATER-MIX-FROM-WELL	27	Y	Y	Y	N/A	N/A	N/A	KALREZ SEALS	
OIL--90-WEIGHT-(SEE-NOTES)	1	Y	Y	Y	0.9	N/A	N/A	300 TO 650 F, 33 SSU AT 400 DEG F, 39 SSU AT 300 DEG F	
OIL--DEODORIZED	1 16 7	Y	Y	Y	N/A	N/A	N/A	HEAT EXTENSION	
OIL--HEAVY	14 37		Y	Y	N/A	N/A	N/A	METERING TEMPERATURE 100 DEG F	
OIL--HOT	7 8		Y	Y	1.1	N/A	N/A	CONTAINS 3% CALCIUM OXIDE AND CALCIUM HYDROXIDE SOLIDS	
								METERING TEMPERATURE 300 DEG F	
OIL--PETROLEUM-BASE	1 16 7	Y	Y	Y	N/A	150	N/A		
OIL-BASE-LIQUID-SEE-NOTES	27		Y	Y	N/A	100	N/A		
OIL-DISTILLATE	1	Y	Y	Y	N/A	N/A	N/A		
OIL-FURNACE	1 14		Y	Y	1.08	3.5	37		
OIL-MOTOR-19W40	1 16 7	Y	Y	Y	N/A	N/A	N/A	0.0004	
OIL-NO-6	14 37		Y	Y	0.885	N/A	N/A	N/A	
OIL-WELL-CONDENSATE	10		Y	Y	0.663	N/A	N/A		
OLEFIN-SULFIDE	8		Y		1.09	5.5	69.3	CARBON BEARING PLATE INSERTS	
								HARD CHROME ROTOR SLEEVES	
								OLEFIN ALSO KNOWN AS ALKENE	
OLEIC-ACID	4 20 8		Y	Y	0.895	N/A	N/A	SULFIDE SOLUTIONS ARE ALKALINE (BASIC PH)	
								TRADE NAME SULFRZOL	
								CLASS 4 USE STAINLESS STEEL TIMING GEARS	
								CLASS 20 USE STAINLESS STEEL TIMING GEARS AT ELEVATED TEMPERATURE CORRODES ALUMINUM - COMPLETELY ANHYDROUS	
OLEUM-SPIRITS	16 7 8		Y	Y	N/A	N/A	N/A	PETROLEUM SOLVENT	
OLIVE-OIL	3 14 37 8	Y	Y	Y	0.91	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
OMEGA-(SEE-NOTES)	15 8		Y	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
								CONSISTS OF 50% POLYESTER RESIN - AMIDE-IMIDE NEUTRAL OR SLIGHTLY ACID	
ORANGE-JUICE	8		Y	Y	N/A	N/A	N/A	TEFLON BEARING PLATE INSERTS	
ORANGE-JUICE-60-BRIX	8		Y	Y	1.1	N/A	N/A		
ORANGE-JUICE-CONCENTRATE	8		Y	Y	N/A	N/A	N/A		
ORGANIC-OIL	14			Y		30000	138600	ESTIMATED PROPERTIES OF FERROTA	
ORTHO-DICHLOROBENZENE	7 8		Y	Y	1.29	1	30	0.0008	

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
			BUNA	TEFLON	VITON	OTHER					
ORTHO-NITRO-CHLOROBENZENE	7	8		Y	Y		1.37				
ORTHO-NITRO-TOLUENE	7	8		Y	Y		1.15				
ORTHO-XYLENE	16	7	8	Y	Y		N/A	N/A	N/A		
OXYGEN-LIQUID-CRYOGENIC	NR						1.14	N/A	N/A		NOT RECOMMENDED
P-D-680	16	7	8	Y	Y		0.77				KNOWN ALSO AS STODDARD SOLVENT, SOLVENT NAPHTHA MEDIUM ALIPHATIC, DRY CLEANING, SAFETY SOLVENT, OR MINERAL SPIRITS
PAIN--ENAMEL	15	27		Y			N/A	N/A	N/A		
PAINT--LACQUER	15	27		Y			N/A	N/A	N/A		
PAINT-LATEX-ACETATE	15	8		Y			0.841	N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
PAINT-LATEX-ACRYLIC	15	8		Y			N/A	N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
PAINT-LATEX-VINYL	15	8		Y			N/A	N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
PAINT-OIL-BASE	15	27		Y			N/A	N/A	N/A		
PALM-OIL	3	14	37	8	Y		0.952	N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
PARAFFIN	14	37		Y			N/A	N/A	N/A		METERING TEMPERATURE 300 DEG F HEAT EXTENSION
PARAFFIN-LIQUID	14	37		Y			N/A	N/A	N/A		
PARAFFIN-SOLVENT-BASED	14	37		Y			N/A	N/A	N/A		METERING TEMPERATURE 285 DEG F
PARAPLEX	14	37		Y			N/A	N/A	N/A		
PARAPLEX-(BASE-SOYBEAN-OIL)	14	37		Y			N/A	3400	17000		
PARATHION--INSECTICIDE	30	15	27	8	Y		1.26	N/A	N/A		INSECTICIDE M-5 USE CLASS 30...MAX. 25 GPM M-7 AND M-15 USE CLASS 15, M-7 MAX. 60 GPM M-15 MAX. 90 GPM
PEANUT-BUTTER	8			Y	Y		1.2	N/A	N/A		VISC. RANGES FROM 10,000 TO 100,000 SSU
PEANUT-OIL	3	14	37	8	Y		0.92	N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
PEAR-OIL	16	7	8	Y	Y		0.879	N/A	N/A		SAME AS AMYL ACETATE
PENNZSUPPRESS_D_CONC	14			Y	Y		1.0254	545	2595		SS ROTOR GEARS RECOMMENDED DUE TO WATER CONTENT SEE WATER-OILY
PENNZSUPPRESS_D_DILUTE	14			Y	Y		1.011	1.061	31		SS ROTOR GEARS RECOMMENDED FOR WATER DILUTION 4:1 WATER TO PENNZSUPPRESS D IS STANDARD DILUTION SEE WATER-OILY
PENTACHLOROPHENOL	7	8		Y	Y		1.978	14	73		WOOD PRESERVATIVE - IF CONTAINS WATER OR OTHER SOLUTION NOT COMPATIBLE WITH ALUMINUM, USE CLASS 7
PENTANE	10			Y	Y		0.626	N/A	N/A		ALUMINUM EXCELLENT AT 100% CONC. TO 200 F BUNA EXCELLENT TO 250 F VITON EXCELLENT TO 140 F
PERCHLOROETHYLENE	7	8		Y	Y		1.619	0.75	0.0006		ALUMINUM NOT RECOMMENDED, CAST IRON GOOD, STAINLESS STEEL EXCELLENT FOR UP TO 90% CONCENTRATION AT 70 F. CARBON INSERT BEARING PLATES
PERCHLOROETHYLENE-(ANHYDROUS)	7	8		Y	Y		1.625	N/A	N/A		PRODUCT MUST BE FREE OF WATER NIRRESIST BEARING PLATES WITH CARBON BEARING INSERTS ALUMINUM NOT RECOMMENDED, CAST IRON GOOD, STAINLESS STEEL EXCELLENT AT CONCENTRATIONS UP TO 90% AND 70 F.
PERCHLOROETHYLENE-AND-(NOTES)	7	8		Y	Y		1.625	N/A	N/A		NIRRESIST BEARING PLATES WITH CARBON BEARING INSERTS ALUMINUM NOT RECOMMENDED, CAST IRON GOOD, STAINLESS STEEL EXCELLENT AT CONCENTRATIONS UP TO 90% AND 70 F.
PERCHLOROMETHANE-(ANHYDROUS)	7	8		Y	Y		1.585	N/A	N/A		TRICHLOROETHYLENE CARBON INSERT BEARING PLATES ALUMINUM NOT RECOMMENDED COULD BE HAZARDOUS
PEROXIDE	8			Y	Y		N/A	N/A	N/A		SEE CARBON TETRACHLORIDE
PETROLEUM-DISTILLATES	16	7	8	Y	Y		0.885	N/A	N/A		RUBBER SOLVENT-LIKE NAPHTHA SAME AS PETROLEUM NAPHTHA OR NAPHTHA
PETROLEUM-ETHER	16	7	8	Y	Y		0.6	N/A	N/A		REF. OLD NAMES VARNOLINE AND WHITE SPIRIT

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	7	8	BUNA	TEFLON	VITON					
PETROLEUM-SPIRITS	16	7	8	Y	Y	Y	0.6	N/A		SAME AS NAPHTHA EXCEPT IN GREAT BRITIAN GB = VOLATILE HYDROCARBON MIX FLASH POINT 32 DEG. F
PHENOL	15	27	8	Y	Y	Y	1.07	N/A		CLASS 8 USE TEFLON INSERT BEARINGS GYLON SEALS OK (GASKET)
PHENOL--CARBOLIC-ACID	15	27	8	Y	Y	Y	1.07	N/A		*MAXIMUM 80% SOLUTION GYLON SEALS OK (GASKET)
PHENOL-FORMALDEHYDE-RESINS	15	8		Y			N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
PHENOLPROPILPRYDENE	7	8		Y			N/A	0.0011		
PHENYL-CHLORIDE	7	8		Y	Y		1.105	N/A		SAME AS CHLOROBENZENE
PHENYLAMINE	8	47		Y	Y		1.022	N/A		** SEE ANILINE INFORMATION **
PHENYLETHANE	16	7	8	Y	Y		0.867	N/A		SAME AS ETHYLBENZENE
PHENYLETHYLENE	16	7	8	Y	Y		0.904	N/A		SAME AS STYRENE
PHENYLME THANE	16	7	8	Y	Y		0.866	N/A		SAME AS TOLUENE
PHENYLME THANOL	16	7	8	Y	Y		1.04	N/A		SAME AS BENZYL ALCOHOL
PHOSPHORIC-ACID	8			N	Y	Y	1.2	N/A		SYNONYMS: TRIPHENYL PHOSPHITE (TPP), PHOSPHOROUS ACID, TRIPHENYL ESTER
PHOSPHORIC-ACID-60%--WATER-40%	8			Y	Y		1.834	N/A		DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHORIC-ACID-75%	8			Y	Y		1.83	N/A		DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHORIC-ACID-80-85%	8			Y	Y		1.83	N/A		DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHORIC-ACID-99%	8			Y	Y		1.834	N/A		DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHORIC-ACID-MAXIMUM-85%	8			Y	Y		1.834	N/A		DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHOROUS-CHLORIDE	NR						1.574	N/A		DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHOROUS-TRICHLORIDE	NR						1.574	N/A		DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PTHALIC-ACID	4	8		Y	Y		1.585	N/A		NOT RECOMMENDED
PTHALIC-ANHYDRIDE	14	8		Y	Y		1.527	N/A		NOT RECOMMENDED
PIMELIC-KETONE-(CYCLOHEXANONE)	16	7	8	Y	Y		0.948	N/A		CLASS 4 USE STAINLESS STEEL TIMING GEARS
PINE-OIL	15		8	Y	Y		0.94	N/A		ALUMINUM CAST IRON & STAINLESS STEEL ARE ONLY RATED GOOD
PINE-OIL--FULL-CONCENTRATE	15		8	Y	Y		0.94	N/A		
PINEAPPLE-JUICE	8			Y	Y		N/A	N/A		
PITCH	1	14		Y	Y		N/A	N/A		
PITCH-(70%PENETRATION-ASPHALT)	1	14		Y	Y		N/A	N/A		CLASS 14 IF TEMPERATURE ABOVE 140 DEG F
PLASTICIZER-BLEND	1	14	37	Y	Y		1.12	N/A		500 TO 5000 SSU
PLASTICIZER-OIL	1	14	37	Y	Y		1.12	N/A		
PLASTICRETE-161	8	27		Y	Y		0.87	165000		CONCRETE ADDITIVE
PLASTISOL	15	8		Y	Y		N/A	N/A		PH=10, ALUMINUM NOT RECOMMENDED USE CAST IRON ONLY IF NOT WATER FLUSHED
POLY-N-FERTILIZER	0			Y	Y		1.46	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
POLYAMIDE-RESINS	15	8		Y	Y		N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
POLYAMINE-SOLUTION	8			Y	Y		1.09	N/A		CLASS 8 USE TEFLON INSERT BEARINGS CL 8 USE TEFLON INSERT BEARINGS
POLYBUTENE	15	8		Y	Y		0.87	750000		CL 8 USE TEFLON INSERT BEARINGS SAME AS POLYBUTYLENE AND POLYISOBUTENE
POLYBUTYLENE	15	8		Y	Y		N/A	N/A		DERATE METER PER VISCIPRESSURE LOSS
POLYESTER-RESIN	15	8		Y	Y		N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
POLYESTER-RESIN-CX403	15	8		Y	Y		N/A	150000		CLASS 8 USE TEFLON INSERT BEARINGS
POLYESTER-RESIN-RESILIENT	15	8		Y	Y		N/A	70000		CLASS 8 USE TEFLON INSERT BEARINGS PREEMULSIFIED BINDER
POLYESTER-RESIN-W/STYRENE	15	8		Y	Y		N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS NO AIR ELIMINATOR

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	15	16	BUNA	TEFLON	VITON					
POLYESTER-SURFACE-COATING	15	8		Y		N/A	20000	92500	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYETHER-ALCOHOL	16	7		Y		N/A	N/A	N/A	N/A	
POLYETHERAMINE	7			Y		0.96	380	1850		USED IN BASF PURADD FD105 GASOLINE ADDITIVE PH 9.8
POLYETHYLENE-GLYCOL	16	8	Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYGLYCOL	15	8	Y	Y	Y	N/A	55000	275000	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYISOBUTENE	15	8		Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS SAME AS POLYBUTYLENE
POLYMER---WATER-BASED	15	8	Y	Y	Y	N/A	1000	4600	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYMERIC-ISOCYANATE	7	8		Y		N/A	N/A	N/A	N/A	PRESSURE LOSS VS VISCOSITY WILL DETERMINE METER SIZE
POLYOL	14	37		Y	Y	1.1	N/A	N/A	N/A	VISCOSITY RANGE FROM 2500 SSU TO 150,000 SSU SPECIFIC GRAVITY RANGE FROM .98 TO 1.30
POLYPHOSPHATE	7	8		Y	Y	N/A	N/A	N/A	N/A	SAME AS SUPERPHOSPHORIC ACID
POLYPHOSPHORIC-ACID	8			Y		N/A	N/A	N/A	N/A	
POLYPROPYLENE	14	37	1	Y	Y	0.9	N/A	N/A	N/A	SELECT CLASS 1 FOR WEIGHTS & MEASURES APPLICATIONS
POLYPROPYLENE-GLYCOL	14	37	1	Y	Y	N/A	N/A	N/A	N/A	SELECT CLASS 1 FOR WEIGHTS & MEASURES APPLICATIONS
POLYPROPYLENE-GLYCOL-TYPE-4	14	37		Y	Y	1.004	930	4400		SHEAR SENSITIVE LIQUID DERATE METER BY 1/3 MAX. CAPACITY
POLYPROPYLENE-OXIDE	16	7		Y		0.8304	340	1638	N/A	CLASS 16 & 7 GOOD ONLY
POLYURETHANE-RESIN	15	8		Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYVINYL-ACETATE-(PVAC)	15	8		Y		1.19	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYVINYL-ALCOHOL	15	8		Y		1.31	N/A	N/A	N/A	VISC. RANGES FROM 5,000 TO 50,000 SSU CLASS 8 USE TEFLON INSERT BEARINGS
POLYVINYL-CHLORIDE-50%-SOLIDS	15	8		Y		N/A	N/A	N/A	N/A	PRODUCT CONSISTS OF: 12% ALCOHOL, .88% WATER/PVA
POLYVIS	1	14		Y	Y	N/A	N/A	N/A	N/A	VISC. CAN RANGE FROM 2000 TO 20000
POTABLE-SPIRIT-99-%	8		Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POTASH-AQUEOUS	27		Y	Y	Y	2.428	N/A	N/A	N/A	SAME AS POTASSIUM CARBONATE DERIVATIVE OF ACETIC ACID
POTASSIUM-ACETATE	7	8		Y		1.57				CARBON BEARING PLATE INSERTS CAST IRON EXCELLENT AT 100% CONC. TO 200 F STAINLESS STEEL GOOD AT ALL CONC. TO 200 F
POTASSIUM-BROMIDE-(AQUEOUS)	NR					2.749	N/A	N/A	N/A	CAST IRON NOT GOOD BELOW 100% CONC. NOT RECOMMENDED
POTASSIUM-CARBONATE	7	20	8	Y	Y	2.428	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
POTASSIUM-CHLORIDE	8		Y	Y	Y					
POTASSIUM-HYDRATE	37	7	8	Y	Y	2.044	N/A	N/A	N/A	SAME AS POTASSIUM HYDROXIDE 50% (SG=1.516) 20% (SG=1.190)
POTASSIUM-HYDROXIDE	37	7	8	Y	Y	1.516	N/A	N/A	N/A	STAINLESS STL & MILD STEEL GOOD FOR SOLTN OF 10% TO 50% BELOW 130 F. CAST IRON BELOW 100 F RULON IS NOT RECOMMENDED
POTASSIUM-HYDROXIDE-(AQUEOUS)	37	7	8	Y	Y	1.516	N/A	N/A	N/A	AVOID DISSIMILAR METALS CLASS 07 & 37 GOOD FOR SOLTN OF 10% TO 50% BELOW 100 F
POTASSIUM-HYDROXIDE-45%	37	7	8	Y	Y	1.457	N/A	N/A	N/A	CLASS 08 GOOD BELOW 130 F SG = 1.516 FOR 50% SOLTN
POTASSIUM-HYDROXIDE-50%	37	7	8	Y	Y	1.457	N/A	N/A	N/A	CAST IRON GOOD, STAINLESS STEEL EXCELLENT AVOID DISSIMILAR METALS
POTASSIUM-HYDROXIDE-60%	37	7	8	Y	Y	1.457	N/A	N/A	N/A	CLASS 07 & 37 GOOD BELOW 100 F .08 GOOD BELOW 130 F NOT RECOMMENDED
POTASSIUM-NITRATE-(AQUEOUS)	16	7	8	Y	Y	2.109	N/A	N/A	N/A	ALUMINUM EXCELLENT UP TO 80% CONCENTRATION AT 70 F. CAST IRON & STAINLESS STEEL ONLY RATED GOOD CLASS 8 UP TO 80% AND 212 F. SAME AS SALT PETER
POTASSIUM-POLYPHOSPHATE-39%	7	8		Y	Y	N/A	N/A	N/A	N/A	
POTASSIUM-POLYPHOSPHATE-100%	7	8		Y	Y	2.564	N/A	N/A	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	METER CLASS	BUNA	TEFLON	VITON	OTHER					
PRESS-CLEANING-SOLVENT-NOTES	7	8		Y		N/A	N/A	N/A		CONTAINS: 5% XYLENE, 78% VMP NAPHTHA, 17% METHYLENE CHLORIDE TEFLON SEALS
PRINCEP---HERBICIDE	30	15	27	8		N/A	N/A	N/A		HERBICIDE CARBON BEARING PLATE INSERTS
										M-5 USE CLASS 30.....MAX.25 GPM
										M-7 & M-15 USE CLASS 15
										M-7 MAX. 60 GPM.....M-15 MAX. 90 GPM
PRINTING-INK	1					N/A	N/A	N/A		CLASS 8 USE TEFLON INSERTS BEARINGS
PRIST-HI-FLASH	16					1.023				SEE INK - PRINTING ALSO INK - ROTOGRAVURE PH 7-8. IN THE GLYCOL ETHER FAMILY
										ANTICING AVIATION FUEL ADDITIVE
PROPANE-LPG---LIQUID	10					0.5077	0.106	25	0.0017	PROPERTIES VARY WITH LPG MIXTURE RATIOS AND CONDITIONS.
PROPANOL	16	7	8			0.804	N/A	N/A	0.00098	SAME AS PROPYL ALCOHOL
PROPANONE-(ANHYDROUS)	16	7	8			0.792	N/A	N/A		SAME AS ACETONE
PROPENE	10					0.513				SEE PROPYLENE
PROPENYL-ALCOHOL	16	7	8			0.852	N/A	N/A	N/A	SAME AS ALLYL ALCOHOL
PROPIONE	16	7	8			0.816	N/A	N/A	N/A	SAME AS DIETHYL KETONE
PROPIONIC-ACID	8	27	15	30		0.84				FORM OF CARBOXYLIC OR FATTY ACID
										CLASS 8 USE TEFLON INSERT BEARINGS
										SEE "FATTY ACIDS" LISTING
PROPYL-ACETATE-(N-PROPYL)	16	7	8			0.887	N/A	N/A	0.0007	ALUMINUM EXCELLENT
										AIR ELIM. USE KALREZ/ARMALON SEALS
PROPYL-ALCOHOL	16	7	8			0.804	N/A	N/A	0.00098	SAME AS PROPANOL
PROPYLENE	10					0.513	N/A	N/A	N/A	COMPRESSED GAS ... TREAT SAME AS LPG EXCEPT
										VITON SEALS ...HIGHLY FLAMMABLE.DANGEROUS
										FIRE RISK...ASPHYXIANANT GAS
										*** MUST CONSULT FACTORY ***
										CANNOT USE BUNA MATERIALS
										SIMILAR TO PROPENE
PROPYLENE-DICHLORIDE	7	8				1.1583	N/A	N/A	0.0011	.00113 @ 20 DEGREE C
										.00115 @ 65 DEGREE C
PROPYLENE-GLYCOL	1	16	7			1.038	60	300	0.0004	
PROPYLENE-OXIDE	8					0.8304	N/A	N/A	0.0015	CAN NOT GUARANTEE METER
PROSOL-10%-OIL--90%-WATER	15	8				N/A	N/A	N/A	N/A	PRODUCT CONSISTS OF: 15% ANHYDROUS AMMONIA,
PROSYL	15	8				N/A	N/A	N/A	N/A	3% MINERAL SALT, 69% MOLASSES, 13% NITROGEN
										CLASS 8 USE TEFLON INSERT BEARINGS
PROWL---HERBICIDE	30	15	27	8		N/A	N/A	N/A	N/A	HERBICIDE
										M-5 USE CLASS 30.....MAX.25 GPM
										M-7 & M-15 USE CLASS 15
										M-7 MAX 60 GPM ... M-15 MAX 90 GPM
										CLASS 8 USE TEFLON INSERT BEARINGS
PRUSSIC-ACID	NR					0.688	N/A	N/A	N/A	SAME AS HYDROCYANIC ACID
										NOT RECOMMENDED
PURON	10					1.066				CHLORINE FREE REFRIGERANT R-410A
										REPLACES R-22 RESIDENTIAL REFRIGERANT
										ALSO KNOWN AS DUPONT SUVA 9100
PVA-WATER-BASE-RESIN	15	8				1.31	3500	16500	N/A	ABBREVIATION FOR POLYVINYL ALCOHOL
										CLASS 8 USE TEFLON INSERT BEARINGS
PYRIDINE	16	20	8			0.98				AROMATIC SOLVENT. BEHAVES AS AN AMINE.
										FORMULA. C5H5N
										OTHER NAMES: AZINE OR AZABENZENE
RAFFINATE	16	7	8							RAFFINATE REFERS TO A RESIDUAL COMPONENT
										LEFT OVER FROM A SOLVENT EXTRACT PROCESS.
										SPECIFIC CHEMICAL DATA UNKNOWN.
RAPESEED-OIL	1	16	7			0.916	120	600	N/A	ALSO CALLED COLZA OIL
RED-OIL	15	8				0.895	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
REFINERS-SYRUP-(SEE-NOTES)	3	14	37	8		N/A	N/A	N/A	N/A	CONSISTS OF: CARAMEL COLORING, HONEY,
										MOLASSES. FLAV-O-RICH
										CLASS 8 USE TEFLON INSERT BEARINGS

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	BUNA	TEFLON	VITON	OTHER						
REFRIGERANT-152a	10				Y	0.922	0.247	0.0014	USE TEFLON AT LOW TEMPS OTHER NAMES: DIFLUOROETHANE, FREON 152a, GENETRON 152a TRADE NAME: DYMEI, 152a (DUPONT) LIQUEFIED COLOURLESS GAS UNDER PRESSURE VAPOR PRESSURE: 87.98 PSI AT 77 F	
RESIDUAL-OIL	14	37	Y		Y	N/A	N/A	N/A		
RESIDUAL-OIL-(ASPHALT)	14	37	Y		Y	0.94	58	290	N/A	
RESIN-(CAUSTIC-PH)	37	27	Y		Y	N/A	N/A	0.0007		
RESIN-(DOW-ECI-77)	8		Y		Y	N/A	N/A	N/A		
RESIN-(NEUTRAL-PH)	14	15	Y		Y	N/A	N/A	N/A		
RESIN-(WATER-BASE)	15	8	Y		Y	1.298	776	3880	CLASS 8 USE TEFLON INSERT BEARINGS RESIN CONSISTS OF: PHENOL FORMALDEHYDE POLYMER WITH SOME UREA FORMALDEHYDE	
RESIN-WITH-XYLENE	15	8	Y		Y	N/A	400	2000	VISCOSITY & PERCENT OF XYLENE WILL DETERMINE MAXIMUM FLOW RATE FOR METER SIZE SELECTED	
RICE-BRAN-OIL	3	14	Y		Y	0.916	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS SAME AS CASTOR OIL ACID	
RICINOLEIC-ACID	16	7	Y		Y	0.94	N/A	N/A		
RICIN-OIL	1	16	Y		Y	0.969	N/A	N/A		
ROOFING-TAR	14	37	Y		Y	N/A	N/A	N/A		
ROPAQUE-COPOLYMER-EMULSION	8		Y		Y	1.1	500	2500	PAINT ADDITIVE-STYRENE/ACRYLIC COPOLYMER EMULSION pH-9 TO 10 (NON-CORROSIVE) CAN BE SHEAR SENSITIVE - FILM FORMING NO CAST IRON, NO CARBON, NO NI-RESIST, NO HARDCROME RECOMMEND NON-PLATED SS316 ROTOR SLEEVES CLASS 8 USE TEFLON INSERT BEARINGS OTHER NAME: COLOPHONY, DERIVATED FROM TURPENTINE ALUMINUM <20 MILS PENETRATION/YR. TO 300F (DARK) <20 MILS PENETRATION/YR. TO 70F (LIGHT) NI-RESIST <50 MILS PENETRATION/YR. AT 70F CLASS 8 USE TEFLON INSERT BEARINGS SEE TALL OIL	
ROSIN	8	4	Y		Y					
ROSINS-(WOOD,-GUM-&OIL)	37	27	Y		Y	1.1	N/A	N/A		
ROUNDUP-(HERBICIDE)	30	15	Y		Y	1.01	1	31	READY TO USE (pH=7.3) M-5 USE CLASS 30 ... MAX 25 GPM M-7 & M-15 USE CLASS 15 M-7 MAX 60 GPM ... M-15 MAX 90 GPM CLASS 8 USE TEFLON INSERT BEARINGS CLASS 8 USE TEFLON INSERT BEARINGS METER MUST BE KEPT FULL TO AVOID OXIDATION OF THE CAST IRON GENERAL PURPOSE PLASTICIZER BUTYL BENZYL PHTHALATE VISC. RANGE 35 TO 1150 SSU (212 F TO 32 F) MINING CHEMICAL - FLOTATION REAGENT CONSIDER A CORROSIVE CHEMICAL BOTH LIQUIDS THROUGH SAME METER NOT MIXED USE NON-PLATED SS316 ROTOR SLEEVES STRONG SOLUTION 60% WATER, 40% CLEANERS WEAK SOLUTION 85% WATER, 15% CLEANERS 9400 SSU TO 37000 SSU NEUTRAL PH USE CLASS 15 ... IF CLASS 27 SELECTED DISCOLORATION MAY OCCUR ... VISCOSITY WILL DETERMINE FLOW RATE OF METER SIZE SELECTED HIGHLY REFINED KEROSENE	
RUBBER-BASE-W/44%-HEXANE	15	8	Y		Y	N/A	N/A	N/A		
RUBBER-CEMENT	15	8	Y		Y	0.8	N/A	N/A		
RUBBER-SOLVENT	16	7	Y		Y	N/A	N/A	N/A		
SALICYLIC-ACID-SOLUTION	8		Y		Y	1.48	N/A	N/A		
SALT-SOLUTION-30%	7	8	Y		Y	N/A	N/A	N/A		
SANTICIZER-160	16	7	Y		Y	1.12		0.00069		
SASCOL-105	7	8	Y		Y	1.03	16.72	85		
SEA-WATER-&-LIGHT-CRUDE-OIL	14	37	Y		Y	N/A	N/A	N/A		
SEVIMOL-4	8		Y		Y	N/A	N/A	N/A		
SF-BUS-WASH-2	8		Y		Y	1.064				
SHAMPOO-(DI-WATER-BASE)	15	27	Y		Y	N/A	N/A	N/A		
SHELL-SOL-(SEE-NOTES)	2		Y		Y	N/A	N/A	N/A		
SHELLACOL	16	7	Y		Y	N/A	N/A	N/A		
SILICONE-FLUIDS	7	8	Y		Y	N/A	N/A	N/A	ALUMINUM OR CAST IRON GOOD, STAINLESS STEEL	

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	14	37	BUNA	TEFLON	VITON					
SILICONE-OIL			Y	Y	Y	0.95	N/A	N/A	ALUMINUM AND CAST IRON GOOD, STAINLESS STEEL EXCELLENT	
SILICONE-OIL-(SEE-NOTES)	1	16	7	Y	Y	0.95	32	N/A	USED FOR BRAKE FLUID	
SILICONE-RESIN	15	27	8	Y	Y	N/A	1040	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
SILVER-BROMIDE	NR					6.473	N/A	N/A	NOT RECOMMENDED	
SILVER-NITRATE	8			Y	Y	4.328	N/A	N/A	STAINLESS STEEL EXCELLENT UP TO 50% CONCENTRATION	
SOAP-SOLUTION	8			Y	Y	N/A	N/A	N/A	CAST IRON NOT RECOMMENDED USE STAINLESS STEEL	
SOAPS-WATER-BASE-W/SODIUM-AND	8			Y	Y	N/A	N/A	N/A	OR POTASSIUM OLEATES PH14 CAST IRON NOT RECOMMENDED	
SODA-ASH-SOLUTION	7	8		Y	Y	1.55	N/A	N/A	SODIUM CARBONATE	
SODIUM-BICARBONATE-50%-CONC.	7	8		Y	Y	1.013	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS	
SODIUM-BICHROMATE	4	8		Y	Y	2.52	N/A	N/A	SAME AS: SODIUM DICHROMATE TOXIC MATERIAL, MAGNETIC DRIVE RECOMMENDED	
SODIUM-BROMIDE-NABR.2H2O	8			Y	Y	2.18	N/A	N/A		
SODIUM-CARBONATE	7	20	8	Y	Y	1.146	N/A	N/A		
SODIUM-CARBONATE-20%-CONC.	7	8		Y	Y	1.146	N/A	N/A		
SODIUM-CHLORIDE-(AQUEOUS)	7	8		Y	Y	2.165	N/A	0.0002	CAST IRON GOOD AT UP TO 30% CONCENTRATION AND 70 F, STAINLESS STEEL EXCELLENT	
SODIUM-CHLORITE-&-WATER-NOTES	8			Y	Y	N/A	N/A	N/A	31% SODIUM CHLORITE AND 68% WATER	
SODIUM-DICHROMATE	4	8		Y	Y	2.52	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS TOXIC MATERIAL, MAGNETIC DRIVE RECOMMENDED	
SODIUM-FERRICYANIDE	8			Y	Y	1.458	N/A	N/A	NOT RECOMMENDED	
SODIUM-FORMATE	NR					1.919	N/A	N/A	1.1. SPECIFIC GRAVITY AT 80 DEGREES F	
SODIUM-HYDROSULFIDE	8			Y	Y	1.1	N/A	N/A	(CAUSTIC SODA, SODIUM HYDRATE, LYE, WHITE CAUSTIC)	
SODIUM-HYDROXIDE	7	8	27	37	Y	1.525	N/A	N/A	STAINLESS STEEL & CAST IRON GOOD IN SOLTN OF 20% TO 50%	
SODIUM-HYDROXIDE-50%	7	8	27	37	Y	1.525	N/A	0.0001	BELOW 160 F, MILD STEEL BELOW 140 F AVOID DISSIMILAR METALS	
SODIUM-HYPOCHLORITE-(AQUEOUS)	NR			Y	Y	1.1	N/A	N/A	NON WEIGHTS & MEASURES APPLICATIONS USE CLASS 27 OR 37	
									SG 50% = 1.525 20% = 1.219 @ 70 F	
									(CAUSTIC SODA, SODIUM HYDRATE, LYE, WHITE CAUSTIC)	
									STAINLESS STEEL & CAST IRON GOOD IN SOLTN OF 20% TO 50% BELOW 160 F MILD STEEL BELOW 140 F	
									AVOID DISSIMILAR METALS	
									NON WTS. & MEAS. APPL. USE CLASS 27 OR 37	
									NOT RECOMMENDED	
									STRONG BLEACHING/DISINFECTING AGENT	
									TANTALUM IS MOST SUITABLE METAL	
									PH TYPICALLY ABOVE 10	
SODIUM-LAURYL-SULFATE	8			Y	Y	N/A	15000	N/A	TEFLON BEARING PLATE INSERTS	
SODIUM-MERCAPTOMENZOTHIOLE	4	8		Y	Y	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS	
SODIUM-METHYLATE	8			Y	Y	N/A	N/A	N/A	SAME AS: SODIUM MET	
SODIUM-NAPHTHALENESULFONATE	7	8		Y	Y	N/A	N/A	N/A	TOXIC, TEMPERATURE LIMITS, CONCENTRATION LIMITS, SPECIAL SEALS	
									USE ORGANIC SYNTHESIS LIQUEFYING AGENT IN ANIMAL GLUE PREPARATIONS NAPHTHOLS.	
SODIUM-NITRATE-(AQUEOUS)	16	7	8	Y	Y	1.36	N/A	N/A	UP TO 90% SOLUTION AT AMBIENT TEMP.	
SODIUM-NITRITE	15			Y	Y	2.168	N/A	N/A	ALSO KNOWN AS CHILE SALT PETER OR CUBIC NITER	
									BUNA EXCELLENT TO 140 F AND GOOD FROM 140-176 F	
									VITON EXCELLENT TO 212 F	
									OFTEN USED FOR ANTI-RUST, DYE MFG., AND MEAT PICKLING	
SODIUM-PHOSPHATE-TRIBASIC	7	8		Y	Y	1.62	N/A	N/A	ALUMINUM EXCELLENT TO 40% SOLUTION TO 200 F	
SODIUM-SILICATE	16	7	20	8	Y	1.56	N/A	N/A	STAINLESS STEEL GOOD	
SODIUM-SULFATE-50-80%-WITH	20	8		Y	Y	2.671	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS	
									50-20% WATER	
SODIUM-SULFATE-DECAHYDRATE	7	8		Y	Y	1.047	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS	

LIQUID TO BE METERED	RECOMMENDED METER CLASS	RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
		BUNA	TEFLON	VITON					
SODIUM-SULFIDE-AQUEOUS	8		Y	Y	1.427	N/A	N/A	AVOID DISSIMILAR METALS *NA2S.9H2O	
SODIUM-THIOSULFATE-(AQUEOUS)	15 8	Y	Y	Y	1.232	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
SODIUM-XYLENESULFONATE	8	Y	Y	Y	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS	
SORBITOL-WITH-30%-WATER	4 8	Y	Y	Y	N/A	N/A	N/A	NOT A SANITARY METER	
SOY-LECITHIN	8	Y	Y	Y	N/A	4000	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
SOYA-OIL	3 14 37 8	Y	Y	Y	0.91	36	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
SOYBEAN-OIL	3 14 37 8	Y	Y	Y	0.924	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
SOYBEAN-OIL-&MILD-HERBICIDE	30 15 27 8	Y	Y	Y	0.929	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
SOYBEAN-OIL-80%-&-20%-ACID	30 15 27 8	Y	Y	Y	0.929	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
STAINMASTER	8		Y	Y	N/A	N/A	N/A	NOT RECOMMENDED	
STANNIC-CHLORIDE-(AQUEOUS)	NR				1.21	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
STARCH--LIQUID	15 8	Y	Y	Y	1.5	N/A	N/A	VARIES FROM A FEW HUNDRED SSU TO AT LEAST 100,000 SSU.	
STARCH--COOKED	15 8	Y	Y	Y	N/A	N/A	N/A	MUST NOT CONTAIN CHLORIDE	
STARCH-SLURRY-15%-SOLIDS	15 8	Y	Y	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
STEAM-CONDENSATE	NR		Y	Y	N/A	N/A	N/A	PRODUCT MUST NOT CONTAIN CHLORIDES	
STEARIC-ACID	15 8	Y	Y	Y	0.839	N/A	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS	
STEARIC-ACID-&-MYRISTIC-ACID	15 8		Y	Y	0.839	N/A	N/A	PRODUCT MUST BE COMPLETELY ANHYDROUS	
STODDARD-SOLVENT	16 7 8	Y	Y	Y	0.78	1.25	32	ALUMINUM FAIR TO POOR.	
STYRENE	16 7 8	Y	Y	Y	0.904	N/A	N/A	STAINLESS STEEL EXCELLENT	
STYRENE---BUTADIENE	37	Y	Y	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
STYRENE-MONOMER	16 7 8	Y	Y	Y	0.904	N/A	N/A	NEUTRAL pH VALUE	
SUCROSE-(SUGAR)	3 14 37 8	Y	Y	Y	1.5877	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
SUGAR	3 14 37 8	Y	Y	Y	1.5877	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
SULFONIC-ACID	7 8	Y	Y	Y	N/A	N/A	N/A	HEAT EXTENSION	
SULFUR---LIQUIFIED	27 47 8	Y	Y	Y	1.8	N/A	N/A	METER SHOULD ALWAYS BE HEAT TRACED	
								METER CAN NOT BE USED IF PRODUCT OVER 400 DEG.F	
SULFUR-DIOXIDE-100%	8		Y	Y	1.4	N/A	N/A	PH 4.5-11 CAST IRON OTHERWISE S.S. W/TEF. INSERTS	
SULFUR-MOLTEN	27 47 8	Y	Y	Y	2	12	60	HEAT EXTENSION	
								METER SHOULD ALWAYS BE HEAT TRACED	
SULFURIC-ACID	8	Y	Y	Y	1.84	N/A	N/A	PH 4.5-11 CAST IRON OTHERWISE S.S. W/TEF. INSERTS	
								0-10% MAXIMUM 120 DEGREES F USE CLASS 8	
								11-84% - NO APPLICATION	
								85-100% MAXIMUM 100 DEGREES F USE CLASS 8	
SULFURIC-ACID---FLUIMING	8	Y	Y	Y	N/A	N/A	N/A	REACTS VIOLENTLY WITH WATER	
SULFURIC-ACID-93%-(BAUME-66)	8	Y	Y	Y	1.84	N/A	N/A	CARBON BEARING PLATE INSERTS	
SULFURIC-ACID-98%-CONC.	8	Y	Y	Y	1.84	N/A	N/A	ALUMINUM OR STAINLESS STEEL GOOD.	
SULFUROUS-ACID	8	Y	Y	Y	1.03	N/A	N/A	TRADEMARK FOR A SERIES OF NONSTAINING	
SULPHITE-LIQUOR	8 14 37	Y	Y	Y	1.3	106	530	NAPHTHENIC OILS,USED AS PLASTICIZERS.	
SUNTHENE	1 14 37	Y	Y	Y	N/A	N/A	N/A	SOFTENERS AND EXTENDERS.	
								LIQUID FEED SUPPLEMENT... PLUG BLEED HOLES	
SUP-R-LIX-THIXOTROPIC	37 47	Y	Y	Y	N/A	390	1950	AND FILL COVERS WITH EDIBLE GREASE	
								RALSTON PURINA TRADE NAME ... PRODUCT IS ABRASIVE	
								LIMITED SERVICE LIFE	
SUPERPHOSPHORIC-ACID	8	Y	Y	Y	N/A	N/A	N/A	SAME AS POLYPHOSPHORIC ACID MAXIMUM 85%. 200 DEGREES F	

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	14	37	47	16	BUNA					
SUPERSEAL-30						0.87				ASPHALT SEALER PRODUCT. CONTAINS AROMATIC 100 VISCOSITY OF AROMATIC 100 IS RELATIVELY LOW CLASS 16 OPTIONAL WITH LOW VISCOSITY AND NO ABRASIVES THERE ARE THREE CATEGORIES OF SURFACE ACTIVE AGENTS: DETERGENTS, WETTING AGENTS, AND EMULSIFIERS. CL 8 USE NON-PLATED SS316 SLEEVES
SURFACTANT	7	8				N/A	N/A	N/A	N/A	
SURFACTANT-GAF-(RC-620)	1				Y	N/A	N/A	N/A	N/A	
SURFACTANTS--SEE NOTES	8				Y	N/A	N/A	N/A	N/A	
SUTAN--HERBICIDE	30	15	27	8	Y	N/A	N/A	N/A	N/A	M-5 USE CLASS 30 ... MAX 25 GPM M-7 & M-15 USE CLASS 15 M-7 MAX 60 GPM ... M-15 MAX 90 GPM CLASS 8 USE TEFLON INSERT BEARINGS HERBICIDE
SUTAZINE--HERBICIDE	30	15	27	8	Y	N/A	N/A	N/A	N/A	M-5 USE CLASS 30 ... MAX 25 GPM M-7 & M-15 USE CLASS 15 M-7 MAX 60 GPM ... M-15 MAX 90 GPM CLASS 8 USE TEFLON INSERT BEARINGS CHLORINE FREE REFRIGERANT R410A SAME AS PURON AND REPLACES R-22 METERING TEMPERATURE 405 DEG F HEAT EXTENSION
SUVA-9100	10				Y	1.066				CLASS 8 USE TEFLON INSERT BEARINGS
SWEET-&SOUR-CRUDE-RESIDUAL	14	37			Y	N/A	N/A	N/A	N/A	METERING TEMPERATURE 405 DEG F HEAT EXTENSION
SYRUP	3	14	37	8	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
TALL-OIL-LIQUID-ROSIN	37	27	8		Y	0.975				SUGGEST CHECKING WITH CUSTOMER TO MAKE SURE MATERIALS OF CONSTRUCTION SELECTED ARE IN KEEPING WITH MATERIALS IN THE REST OF SYSTEM
TALLOW--BEEF	3	14	37	8	Y	0.86	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS ... PRODUCT MAY BE HEATED VISCOSITY FROM 1,000 SSU TO 25,000SSU
TALLOW--LIQUID-FAT	3	14	37	8	Y	0.86	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
TALLOW-AND-VEGETABLE-OIL	3	14	37	8	Y	0.86	100	500	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
TAMOL-850	8				Y	N/A	248	1240	N/A	FLAT GASKETS MUST BE TEFLON
TAR-FUEL-OIL	1	14	37		Y	N/A	30	150	N/A	VISCOSITY & TEMPERATURE WILL DETERMINE METER CLASS
TAR-OIL--NAPHTHA-&PHENOL	7	8			Y	0.862	N/A	N/A	N/A	
TAR-STEAM-CRACKED	14	37			Y	1.06	1300	6100	0.00063	
TDI-(TOLUENE-DIISOCYANATE)	7	8			Y	1.22	N/A	N/A	0.0005	
TECSOL-#3-95%	16	7	8		Y	N/A	N/A	N/A	N/A	ETHYL ALCOHOL
TELONE-II	7	8			Y	1.211				MAIN ACTIVE INGREDIENT IS DICHLOROPROPENE USED AS SOIL FUMIGANT FOR CROP PEST CONTROL
TERPENE-SOLVENT	16				Y	0.845				PH 8.2
TERTIARY-BUTYL-ALCOHOL	16	7	8		Y	N/A	N/A	N/A	N/A	
TETRACHLOROETHYLENE-ANHYDROUS	7	8			Y	1.625	N/A	N/A	N/A	SAME AS PERCHLOROETHYLENE
TETRAETHYLEAD-4PB	16	7	8		Y	1.6	N/A	N/A	N/A	PRODUCT MUST BE WATER FREE
TETRAHYDROFURAN	7	8			Y	0.89	1	5	N/A	
TETRAPOTASSIUM-PYROPHOSPHATE	8				Y	1.74	42	210	N/A	
TEXANOL	16				Y	0.95	18	90	0.0006	2,2,4 TRIMETHYL-1,3 PETANEDIOL MONOISOBUTYRATE EXPANSION COEFF. ESTIMATED FROM SIMILAR ALCOHOLS KNOWN AS TEXANOL ESTER-ALCOHOL
THERMEX-8244	1	14	37		Y	N/A	N/A	N/A	N/A	MEMBER OF THE 'ALIPHATIC SOLVENTS' FAMILY. HEAVY DUTY. HIGH TEMPERATURE LUBRICANT
THIOGLYCOLIC-ACID	8				Y	1.325	N/A	N/A	N/A	
THIOL	16	8			Y	0.85	3	36	N/A	THIOL PREVIOUSLY KNOWN AS MERCAPTAN
THIOSOL	15	8			Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
THIOSULFATE-(SEE NOTES)	8				Y	N/A	N/A	N/A	N/A	12% NITROGEN & 26% SULPHUR WITH LIQUID ZINC
TITANIUM-DIOXIDE	NR				Y	3.8	N/A	N/A	N/A	TiO2 SLURRY ... EXTREMELY ABRASIVE USED IN PAINTS & COATINGS
TITANIUM-TETRACHLORIDE	NR				Y	1.7609	N/A	N/A	N/A	NOT RECOMMENDED
TOLUENE	16	7	20	8	Y	0.866	1	5	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS
TOLUENE-XYLENE-BENZENE	16	7	8		Y	1.22	N/A	N/A	N/A	AND PEIRYLENE

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	BUNA	TEFLON	VITON	OTHER						
TOLUENE-DIISOCYANATE	8		Y		Y	1.22	N/A	N/A		ALSO SEE ISOCYANATE PRODUCT MUST BE WATER FREE VISC. RANGES FROM 38 TO 750 SSU SLIGHTLY CORROSIVE TO COPPER AND ALUMINUM. COPPER, ZINC, AND IRON ALLOYS CAUSE PRODUCT DETERIORATION. ALSO KNOWN AS TDI. 50% TOLUENE AND 50% LACOLENE CLASS 8 USE TEFLON INSERT BEARINGS CLASS 20 USE STAINLESS STEEL TIMING GEARS OBSOLETE NAME FOR TOLUENE
TOLUENE-MIX--SEE-NOTES	16	7	8		Y	1.8	N/A	N/A		
TOLUENE/OIL-BASE PAINT	15	27	8		Y	N/A	N/A	N/A		
TOLUOL	16	7	20	8	Y	0.866	N/A	0.0006		
TOMATO-PUREE	8				Y	N/A	N/A	N/A		
TOMATOE-PASTE	8				Y	N/A	N/A	N/A		
TORDON-2696	4	8			Y	N/A	N/A	N/A		HERBICIDE & DEFOLIANT USE HAS BEEN RESTRICTED SAME AS PICLORAM... TOXIC BY INHALATION & INGESTION CLASS 4 USE STAINLESS STEEL TIMING GEARS MAGNETIC DRIVE RECOMMENDED
TOXAPHENE-90%	8				Y	1.66	N/A	N/A		
TRANSFORMER-OIL	1	16	7		Y	N/A	N/A	0.0004		TRADE NAMES DEXRON AND MERCON
TRANSMISSION-FLUID	1	16	7		Y	0.87	34	185		ALSO REFERENCE ATF HERBICIDE
TREFLAN--HERBICIDE	30	15	27	8	Y	N/A	N/A	N/A		M-5 USE CLASS 30 ... MAX 25 GPM M-7 & M-15 USE CLASS 15 M-7 MAX 80 GPM ... M-15 MAX 90 GPM CLASS 8 USE TEFLON INSERT BEARINGS
TRIBUTYL-PHOSPHATE	7	8			Y	0.978	N/A	N/A	0.0004	
TRICHLORO-122-TRIFLUOROETHANE	7	8			Y	1.42	N/A	N/A		CARBON BEARING PLATE INSERTS NOT RECOMMENDED
TRICHLOROACETIC-ACID	NR				Y	1.62	N/A	N/A		
TRICHLOROBENZENE-1,2,4	7	8			Y	1.463	N/A	N/A		
TRICHLOROETHANE	7	8			Y	1.443	N/A	N/A	0.0007	
TRICHLOROETHANE-1,1,1	7	8			Y	1.325	N/A	N/A	0.0007	
TRICHLOROETHYLENE	7	8			Y	1.456	0.54	0.0006		CARBON BEARING PLATE INSERTS PRODUCT MUST BE FREE OF WATER
TRICHLOROETHYLENE-METHYLENE	7	8			Y	N/A	N/A	N/A		CARBON BEARING PLATE INSERTS CONSISTS OF: 70% TRICHLOROETHYLENE, 15% CREOSOL AND 15% DIETHANOLINE TEFLON SEALS
TRICHLOROETHYLENE-MIX-	7	8			Y	N/A	N/A	N/A		TRADE NAME: KRONITEX
TRICRESYL-PHOSPHATE-SEE-NOTES	7	8			Y	1.162	N/A	N/A		
TRIDECYL-ALCOHOL	16	7	8		Y	0.845	N/A	N/A		
TRITHANOLAMINE	16	7	8		Y	1.126	N/A	N/A	0.0003	CL 8 USE NON-PLATED SS316 SLEEVES
TRIETHYLAMINE	7	8			Y	0.7293	N/A	N/A		
TRIETHYLENE-GLYCOL	1	16	7		Y	1.12	100	500	0.0004	
TRIMETHYLAMINE-(AQUEOUS)	7	8			Y	0.662	N/A	N/A	N/A	
TRIMETHYLPENTANE	10				Y	0.692	N/A	N/A	N/A	SAME AS ISOOCTANE
TRIMETHYLPHENOL	8				Y	N/A	N/A	N/A		SYNONYMS: PHOSPHOROUS ACID, TRIPHENYL ESTER, TPP, PHOSPHORIC ACID
TRIPHENYL-PHOSPHITE	8				Y	1.2				CL 8 USE TEFLON SEALS AND TEFLON INSERT BEARINGS
TRISODIUM-NTA	8				Y	1.3				SAME AS TRISODIUM NITRILTRIACETATE SAME AS: SODIUM PHOSPHATE TRIBASIC
TRISODIUM-PHOSPHATE	7	8			Y	1.62	N/A	N/A		
TRITON-X-100	1	16	7		Y	N/A	N/A	N/A		
TUNG-OIL	1	16	7		Y	0.936	N/A	N/A		
TURPENTINE	16	7	20	8	Y	0.87	1	5	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS ALSO CALLED POLYSORBATE 20
TWEEN-20	7	8			Y	1.08				USED AS SURFACTANT AND SPREADING AGENT FOR PHOTO PRINT MAKING USED IN MAKING FOOT POWDERS, SOLIDIFIES AT AMBIENT TEMPERATURES HOT OIL JACKET (STEAM TRACE)
UNDECYLENIC-ACID-(SEE-NOTES)	8				Y	0.913	N/A	N/A		
URANINE-AQUEOUS-SOLUTION-20%	0					N/A	N/A	N/A		
UREA	30	15	27	8	Y	1.335	N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL		SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	30	15	27	8					
UREA-25%-WITH-75%-ORGANIC-DYE					1.335	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
UREA-FORMALDEHYDE-RESIN-ALKYLA	8				1.01	2			WATER SOLUTION CYMEL U-662 PRODUCED BY CYTEC ALKYLATED UREA FORMALDEHYDE RESIN DYNAMIC VISCOSITY: 20 POISE @ 25 C STAINLESS STEEL 304 OR 316 KALRES ALSO RECOMMENDED
UREA-WITH-SOLIDS-(SEE-NOTES)	27	8			1.335	N/A	N/A	N/A	BUINA SEALS WILL SHOW SOFTENING DUE TO THE AMINO RESINS VITON EXCELLENT WITH ISOBUTANOL BUT UP TO 75 F CYMEL U-662 CONTAINS 28% OF ISOBUTANOL
VACUUM-GAS-OIL	1	16	7		0.88	73.2	366	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS CONTAINS: DIAMMONIUM PHOSPHATE 50, POTASSIUM CHLORIDE 20, 6% OF 38.5 STRENGTH SULPHURIC ACID, 10% UREA, 14% WATER PH 5 TO 6 TEFLON SEALS EXPANSION COEFF. ESTIMATED FROM SIMILAR LUBE OILS USED AS A VACUUM PUMP LUBE OIL
VAPAM-HL	30	15	27	8					CL 8 USE TEFLON INSERT BEARINGS SODIUM METHYLDITHIOCARBAMATE, METAM SODIUM
VAPAM-SOIL-FUMIGANT	8				N/A	5	25	N/A	SOIL FUMIGANT SOLUTION FOR CROPS PH 9.0-10.5
VARNISH	15	20	8		N/A	1600	8000	N/A	PRODUCT OF STAUFFER CHEM. CO.
VARSOL	16	7	8		0.8	1.25	32	0.0006	CLASS 8 USE TEFLON INSERT BEARINGS CLASS 20 USE STAINLESS STEEL TIMING GEARS SIMILAR TO STODDARD SOLVENT
VEGETABLE-OIL	3	14	37	8	0.95	10	50	0.0004	NEUTRAL pH VALUE
VEGETABLE-SHORTENING	3	14	37	8	0.91	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS 150 TO 1500 SSU SOYBEAN OIL BASE
VESTANAT	7	8			1.06	15	80	N/A	CLASS 8 USE TEFLON INSERT BEARINGS ALSO CALLED ISOPHORONE DIISOCYANATE
VINEGAR	8				1.04	N/A	N/A	0.0006	NOT RECOMMENDED
VINEGAR-(14%-ACETIC-ACID-AND	8				N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS MAINLY USED IN ADHESIVES AND PAINTS
VINEGAR--120-GRAIN	8				1.04	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS CLASS 8 USE TEFLON INSERT BEARINGS VISCOSITY 10,000 TO 15,000 SSU
VINEGAR--SALT-AND-MUSTARD	8				1.04	N/A	N/A	N/A	MAINLY USED IN ADHESIVES AND PAINTS
VINEGAR-AND-SUGAR	8				1.11	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINEGAR-W/5%-ACETIC-ACID	8				1.04	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINEGAR-WINE	NR				1.04	N/A	N/A	N/A	16% MEK, 42% TOLUOL
VINYL-ACETATE	15	27	8		0.934	N/A	N/A	0.0004	VISCOSITY MAY VARY - EVEN TO SLURRY FORM
VINYL-ACETATE-HOMOPOLYMER	15	8			0.9345	N/A	N/A	N/A	CLASS 27 USE SS TIMING GEARS CLASS 8 USE TEFLON INSERT BEARINGS
VINYL-ACRYLIC	15	8			N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINYL-ACRYLIC-LATEX	15	8			N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINYL-CHLORIDE-MONOMER	7	8			0.92	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINYL-COMPOUND-	15	8			N/A	0.34	24	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINYL-ESTER	15	27	8			1	30		16% MEK, 42% TOLUOL VISCOSITY MAY VARY - EVEN TO SLURRY FORM
VINYL-RESINS	15	8			N/A	N/A	N/A	N/A	CLASS 27 USE SS TIMING GEARS CLASS 8 USE TEFLON INSERT BEARINGS
VINYLTOLUENE	15	8			0.89	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
WALDORF-BLEND-4	16	7	8		0.842				ISOPROPANOL 40%, N-PROPYL ACETATE 40% TOLUENE 15%, PROPANOL 5%
WASTE-OIL-(RECOVERY-ABRASIVE)	14	37	47		N/A	N/A	N/A	N/A	SOLVENT BLEND PER ABOVE RATIOS COARSE MESH STRAINER (20M) RECOMMENDED TO PREVENT METER LOOK-UP OR FAILURE
WATER-ARSENIC-&-COPPER	8				N/A	N/A	N/A	0.0002	SELECT STRAINER DESIGNED FOR EASY CLEANING
WATER-SOUR-W/5%-HYDROGEN-	8				N/A	N/A	N/A	0.0002	*SULFIDE
WATER-&-OIL	4	20	8		N/A	14	70	N/A	
WATER-&-ORGANIC-SOLUTION	30	15	8		1.2	5	40	0.0002	CLASS 8 USE TEFLON INSERT BEARINGS

LIQUID TO BE METERED	RECOMMENDED METER CLASS		RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	TEXT
	NR	METER CLASS	BUNA	TEFLON	VITON					
WATER---BOILER-FEED	20	8	4	Y	Y	1	N/A	N/A	NOT RECOMMENDED	
WATER---CITY						1	1.6	8	CLASS 04 GOOD BELOW 170 F. CLASS 08 GOOD BELOW 210 F.	
WATER---CUT-BACK	20	8	4			N/A	N/A	N/A	CLASS 20 GOOD BELOW 210 F VALVE SEAT - TEFLON	
WATER---DE-OXYGENATED	20	8	4	Y	Y	N/A	N/A	N/A		
WATER---DEIONIZED	4	8	8	Y	Y	1	1.6	8	BRASS NOT RECOMMENDED	
WATER---DEMINERALIZED	4	8	8	Y	Y	1	N/A	N/A	BRASS NOT RECOMMENDED	
WATER---DISTILLED	20	8	4	Y	Y	N/A	N/A	N/A	METERING TEMPERATURE 180 DEG.F MAX.	
WATER---FRESH	20	8	4	Y	Y	1	N/A	N/A		
WATER---HARD-WITH-RAW-SALT	8			Y	Y	N/A	N/A	N/A		
WATER---PROCESS	20	8	4	Y	Y	N/A	N/A	N/A		
WATER---PURE	20	8	4	Y	Y	1	N/A	N/A		
WATER---SALT	8			Y	Y	N/A	N/A	N/A	AVOID DISSIMILAR METALS	
WATER---SALT-&10%-CRUDE	8			Y	Y	N/A	N/A	N/A	AVOID DISSIMILAR METALS	
WATER---SEA	8			Y	Y	1.025	N/A	N/A	AVOID DISSIMILAR METALS	
WATER---SEA-W/CAUSTIC-FLUSH	8			Y	Y	N/A	N/A	N/A	AVOID DISSIMILAR METALS	
WATER-70%-SOY-BEAN-CAKE-25%	30	15	8	Y	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS *CLAY 5%	
WATER-80%-WITH-SODIUM-	7	8		Y	Y	N/A	N/A	N/A	*DOCEYU/SODIUM BENZENESULFONATE	
WATER-AND-AMMONIA-SULFATE	8			Y	Y	N/A	N/A	N/A		
WATER-AND-METHANOL	4	8	8	Y	Y	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS	
WATER-DISTILLED-W/10%-LACTIC	4	8	8	Y	Y	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS USE CLASS 4 UP TO 100 DEG F	
WATER-HEATED	20	8	4	Y	Y	N/A	N/A	N/A	USE CLASS 8 IF ABOVE 100 DEG F	
WATER-MIX-(SEE-NOTES)	NR								*ACID	
WATER-MIXTURE-(SEE-NOTES)	7	8		Y	Y	N/A	N/A	N/A	MAX. OPERATING TEMPERATURE 180 DEG.F.	
WATER-OILY-(REFINERY)	14			Y	Y	N/A	N/A	N/A	15-70% WATER, 10-40% SODIUM SULFATE, 20-45% CAUSTIC	
WATER-ON-OILWELL-SEPARATOR	4	8	20	Y	Y	N/A	N/A	N/A	NOT RECOMMENDED	
WATER-POTABLE	20	8	4	Y	Y	N/A	N/A	N/A	WATER WITH 2.7% SODIUM HYDROXIDE, 20% SODIUM SULFATE	
WATER-SOFT	20	8	4	Y	Y	N/A	N/A	N/A	DO NOT USE CLASS 20 BRASS METER IF WATER HAS HIGH SULFUR CONTENT	
WATER-SOLUBLE-RESINS	15	8		Y	Y	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
WAX---HOT	14	37		Y	Y	N/A	N/A	N/A		
WAX---HOT-(MEKON-WHITE-&-NOTE)	14	37		Y	Y	N/A	N/A	N/A	MOBIL 150) METERING TEMPERATURE 150-250 DEG F HEAT EXTENSION	
WAX-MOLTEN	14	37		Y	Y	N/A	N/A	150		
WHISKEY	8			Y	Y	N/A	N/A	N/A		
WINE	8			Y	Y	N/A	N/A	N/A		
WINSHIELD-WASHER-SOLVENT	4	16	20	8	Y				CLASS 16 USE SS GEARS	
WINTERGREEN-OIL	3	14	37	8	Y	1.185	N/A	N/A	TYPICALLY WATER/GLYCOL/METHANOL MIXTURE	
WOOD-ALCOHOL	16	7	8	Y	Y	0.7924	N/A	N/A	VITON NOT RECOMMENDED CHEMICALLY OR FOR LOW TEMPS	
XYLENE	16	7	8	Y	Y	0.86	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS	
XYLENE-AND-NAPHTHA	16	7	8	Y	Y	0.86	N/A	N/A		
XYLENOL	16	7	8	Y	Y	1.03	N/A	N/A		
XYLIDINE	8			N	Y				SYNONYMS: AMINODIMETHYLBENZENE, AMINOXYLENE, DIMETHYLAMINO BENZENE, N-N DIMETHYL ANILINE (DMA), SPIRITS AND ESSO 100, ALL PRODUCTS THROUGH THE SAME METER	
XYLOL -VMP-NAPHTHA, MINERAL	16	7	8	Y	Y	N/A	N/A	N/A		
YEAST	8			Y	Y	N/A	N/A	N/A		
YEAST-SLURRY	8			Y	Y	N/A	N/A	N/A		
ZINC-BROMIDE-&-CALCIUM-BROMIDE	NR					4.219	N/A	N/A	NOT RECOMMENDED	
ZINC-OXIDE	NR					5.47	N/A	N/A	NOT RECOMMENDED DUE TO ABRASIVENESS CLASS 47 DERATED SHOULD BE CONSIDERED	
ZINC-SULFATE	8			Y	Y	1.96	N/A	N/A	CONSULT CUSTOMER SERVICE	



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Quality, Accuracy and Advanced Design.**



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