



# Meters & Accessories

# Liquid Reference Tables



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## LIQUIDS

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LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
2-3-EP TM-AMMONIUM-CHLORIDE	7	8		Y	Y						2,3-EPOXYPROPYLTRIMETHYLAMMONIUM CHLORIDE CLASS 8 USE NON-PLATED SS ROTOR SLEEVES
2-ETHYL-HEXANOL	16	7	8		Y	Y	0.83	6.27	45		USE STEEL CASE AND/OR CAST IRON FOR FIRE APPROVAL SAME AS OCTYL ALCOHOL/OCTANOL
3-CHLORO-2-HPTM-AMM-CHLORIDE	7	8		Y	Y						3-CHLORO-2-HYDROXYPROPYLTRIMETHYLAMMONIUM CHLORIDE CLASS 8 USE NON-PLATED SS ROTOR SLEEVES
AATREX-HERBICIDE	30	15	27	8	Y	Y	1.19	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
ACENAPHTHENE	14	37	8		Y	Y	1.2				DERIVED FROM COAL TAR ABBREVIATION IS ACN ALSO KNOWN AS ETHYLENE NAPHTHALENE
ACETALDEHYDE	16	7	8		Y		0.783	N/A	N/A		ALUMINUM RATED GOOD ALSO CALLED ACETIC ALDEHYDE
ACETATE	16	7	8		Y		0.9	0.49	N/A		ALUMINUM RATED GOOD
ACETATE-AMYL	16	7	8		Y		0.88	N/A	N/A		
ACETATE-BUTYL	16	7	20	8	Y		0.875	N/A	N/A		
ACETATE-ETHYL	16	7	20	8	Y		0.885	N/A	N/A		
ACETATE-ISO-BUTYL	16	7	8		Y		0.86	N/A	N/A		
ACETIC-ACID	8				Y		1.05	1	32		
ACETIC-ACID-&-HYDRONATE-LIME	8				Y		1.05	1	32		
ACETIC-ACID-(ANHYDROUS)	8				Y		1.055	1	32		
ACETIC-ACID-(AQUEOUS)	8				Y		1.05	1	32		25% - 50% ACETIC ACID & 50% - 75% WATER
ACETIC-ACID--120-GRAIN	8				Y		1.055	1	32		ALL 316 SS WILL CORRODE IF SMALL AMOUNT OF ACETIC ANHYDRIDE IS PRESENT IRON NO GOOD IN ANY CONCENTRATION
ACETIC-ACID-82-99%-PURE	8				Y		1.0492	N/A	N/A		
ACETIC-ACID-GLACIAL	8				Y		1.05	1	32		
ACETIC-ANHYDRIDE	8				Y		1.083	1	30		
ACETOCHLOR	15	30	27	8	Y	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 TRADE NAMES: ACENIT, GUARDIA, HARNESSE RELAY, SACEIMID, SURPAS TOP-HAND, TROPHY, AND WINNER.
ACETONE	16	7	20	8	Y		0.8	1	30		CLASS 20 USE STAINLESS STEEL TIMING GEARS DO NOT USE BUNA OR VITON SEALS
ACETONE-(ANHYDROUS)	16	7	20	8	Y		1.359	1	30		CLASS 20 USE STAINLESS STEEL TIMING GEARS

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
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	
ACROLEIN	16	7			Y	Y	0.84	N/A	N/A	N/A	PH=6 (10% SOLUTION)
ACRYLIC-ACID	4	8			Y	Y	1.052	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
ACRYLIC-ADHESIVES	15	27			Y	Y	1.052	N/A	N/A	N/A	
ACRYLIC-EMULSION	15	27			Y	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	Y	N/A	N/A	N/A	N/A	
ACRYLOID-(CELLSOLVE-ACETATE)	7	8			Y		0.97	1	30	0.0005	
ACRYLONITRILE	15	8			Y		0.8	20	100	N/A	TEFLON SEALS, NO PLASTIC, IRON, STEEL OR NI-RESIST AVOID DISSIMILAR METALS CLASS 8 W/ TEFLON INSERTS
AD-HERE-SL	27	8			Y	Y	0.977	775	3750		CLASS 8 USE TEFLON INSERTS PH=11 (DO NOT USE ALUMINUM) LIQUID ANTI-STRIP, (FATTY ACID AMIDAMINE)
ADHESIVE-(ALKALINE)	27	8			Y	Y	N/A	N/A	N/A	N/A	CLASS 8 W/TEFLON INSERTS
ADHESIVE-(TOLUENE-&-RUBBER)	14	37			Y		N/A	74000	360000	N/A	
ADHESIVES-(NEUTRAL-PH)	15	27			Y	Y	N/A	N/A	N/A	N/A	
ADVA-FLOW	8				Y		1.05				CONCRETE ADDITIVE PH 4-7 AND CONTAINS AMINES AND ACIDS DO NOT USE WITH CARBON STEEL!! NOT RECOMMENDED
AIR-(LIQUID-CRYOGENIC)	NR						N/A	N/A	N/A	N/A	
ALCOHOL	16	7	20	8	Y		N/A	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL---BEER-INDUSTRY	20	8			Y		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	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 NO PLASTIC GEARS
ALCOHOL-ANHYDROUS-MOTOR-GRADE	16	7	20	8	Y	Y	N/A	N/A	N/A	N/A	200 PROOF FOR USE IN GASOHOL - DO NOT USE PLASTIC GEARS CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-BUTYL	16	7	20	8	Y	Y	0.81	N/A	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-C-10-(CHIPTAC)	16	7	20	8	Y	Y	0.873	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-DENATURED	16	7	20	8	Y	Y	0.816	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALCOHOL-HEXYL	16	7	20	8	Y	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	Y	N/A	N/A	N/A	N/A	CAUTION! FLAMMABLE, TOXIC WHEN INHALED TERMINERCAPTAN NOW OBSOLETE REPLACED BY THIOI

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
	7	8		BUNA	PTFE	VITON	OTHER					
ALKALI-SOLUTION	7	8		Y	Y	Y		N/A	N/A	N/A	N/A	
ALKALINE-CLEANERS	7	8		Y	Y	Y		N/A	N/A	N/A	N/A	
ALKALINE-POLYMER--LIGHT	15	27			Y			N/A	20	100	N/A	STICKY, AIR DRIES
ALKYD-OIL-BASE-XYLENE-SOLVENT	14	37	8		Y	Y		N/A	N/A	N/A	N/A	
ALKYD-RESIN-(W/PTHALIC-ACID)	8				Y					17130		CARBON BEARING PLATE INSERTS VISC. 12760-21500 SSU (17130 AV/G.)
ALKYD-RESIN-(WATER-BASE)	15	27	8		Y	Y		N/A	N/A	N/A	N/A	IN CLASS 8 USE TEFLON INSERTS
ALKYD-RESINS	14	37	8		Y	Y		N/A	10000	50000	N/A	
ALKYL-PHENOL-POLYGLYCOL-ETHER	7	8			Y				400	1950		USE CARBON INSERT BEARING PLATES
ALKYL-POLYGLYOSIDES	8				Y				10000	46500		ALSO CALLED A.P.G. 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	Y		0.835	1.5	33		FORM OF BENZENE, ALKYL DERIVATIVES SS UP TO 167 F IS EXCELLENT CL 20 USE SS GEARS
ALKYLATE-ESTER	8				Y	Y		N/A	N/A	N/A	N/A	
ALLYL-ALCOHOL	16	7	20	8	Y	Y		0.852	N/A	N/A	0.0006	AVOID DISSIMILAR METALS CLASS 20 USE STAINLESS STEEL TIMING GEARS
ALUMINIUM-CHLORIDE-(ANHYDROUS)	NR							2.44	N/A	N/A	N/A	NOT RECOMMENDED
ALUMINIUM-CHLORIDE-HYDRATE	NR							2.4	N/A	N/A	N/A	AQUEOUS NOT RECOMMENDED
ALUMINIUM-CHLOROXYDRATE	8				Y			N/A	N/A	N/A	N/A	
ALUMINIUM-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
ALUMINIUM-NITRATE-SOLUTION	15	8			Y			N/A	N/A	N/A	N/A	OVER 10% SOLUTIONS ..CONSULT FACTORY UP TO 30% CONCENTRATION UP TO 70 F ALUMINIUM GOOD, UP TO 50% CONCENTRATION UP TO 167 F STAINLESS STEEL EXCELLENT?? TEMPERATURE RANGE 70 TO 180F
ALUMINIUM-SULFATE-50%-AL2(SO4)	15	8			Y	Y		2.71	N/A	N/A	N/A	
AMBITROL	16	7			Y	Y		N/A	N/A	N/A	N/A	TM FOR COOLANTS USED IN STATIONARY INDUSTRIAL ENGINES
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

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
AMINES	8			Y	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 CLASS 4 USE STAINLESS STEEL TIMING GEARS
AMMONIA	15	30	27	8	Y			N/A	N/A	N/A	N/A	AQUEOUS SOLUTIONS UP TO 32% CLASS 8 WITH TEFLON INSERT BEARINGS
AMMONIA-(ANHYDROUS)-60-225-PSI	12				Y		Y	0.77	N/A	N/A	0.0013	CONSULT FACTORY FOR PRICING HARD CHROME ROTOR SLEEVES & HARD CARBON BEARINGS *SEALS-OTHER* NEOPRENE (CHLOROPRENE) *SEALS-OTHER* ETHYLENE PROPYLENE (EP, EPDM)
AMMONIA-(ANHYDROUS)-NH3	12				Y		Y	0.7402	N/A	N/A	0.0013	CONSULT FACTORY FOR PRICING HARD CHROME ROTOR SLEEVES & HARD CARBON BEARINGS *SEALS-OTHER* NEOPRENE (CHLOROPRENE) *SEALS-OTHER* ETHYLENE PROPYLENE (EP, EPDM)
AMMONIA-18,24%-SOLUTION	15	30	27	8	Y			N/A	N/A	N/A	N/A	AVOID DISSIMILAR METALS CLASS 8 WITH TEFLON INSERT BEARINGS
AMMONIA-NITRO-SULFUR	8				Y			1.25	N/A	N/A	N/A	TEFLON BEARING PLATE INSERTS
AMMONIUM-CARBONATE-(AQUEOUS)	7	8			Y	Y		N/A	N/A	N/A	N/A	
AMMONIUM-CHLORIDE	7	8			Y	Y		1.54	10	50	N/A	
AMMONIUM-HYDROXIDE	15	8			Y			0.99	1	30	N/A	AVOID DISSIMILAR METALS CLASS 8 WITH TEFLON INSERT BEARINGS
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	Y		1.73	N/A	N/A	0.0003	
AMMONIUM-PHOSPHATE-DIBASIC	NR							1.619	N/A	N/A	N/A	AVOID DISSIMILAR METALS NOT RECOMMENDED
AMMONIUM-PHOSPHATE-MONOBASIC	NR							1.803	N/A	N/A	N/A	AVOID DISSIMILAR METALS NOT RECOMMENDED
AMMONIUM-SULFATE-(AQUEOUS)	8				Y	Y		1.77	N/A	N/A	N/A	AVOID DISSIMILAR METALS PITTING MAY OCCUR UNDER CERTAIN CONDITIONS
AMMONIUM-SULFIDE	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
AMMONIUM-SULFITE	NR							1.41	N/A	N/A	N/A	NOT RECOMMENDED
AMMONIUM-THIOSULFATE-58%	8				Y			1.32	N/A	N/A	N/A	KODAK FILM DEVELOPING SOLUTION (REPLENISHER)

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
AMPS-MONOMER	8				Y		1.22	6			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 CLASS 20 USE STAINLESS STEEL TIMING GEARS
AMYL-ALCOHOL	16	7	20	8	Y	Y	0.817	N/A	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
AMYL-CARBINOL-(HEXANOL)	16	7	8		Y	Y	0.8186	N/A	N/A	N/A	
ANILINE	8	47			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=8.1 (SLIGHTLY ALKALINE) - HIGHLY TOXIC PRODUCT SAME AS ANILINE OIL, AMINO BENZENE, PHENYLAMINE CONSULT ENGINEERING IF NECESSARY
ANILINE-OIL	8	47			Y		1.022	4	38		** SEE ANILINE INFORMATION **
ANIMAL-FAT	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
ANT-OIL-(ANHYDROUS)	3	8			Y		1.1598	N/A	N/A	N/A	
ANTIFREEZE	1	16	7	20	Y	Y	0.1	N/A	N/A	0.0004	TECHNICAL NAME - ETHYLENE GLYCOL IF CLASS 20 SELECTED CONSULT FACTORY FOR ROTOR SIZE
ANTIMONY-TRICHLORIDE	NR						3.14	N/A	N/A	N/A	NOT RECOMMENDED
APPLE-JUICE	8				Y	Y	1.06	N/A	N/A	N/A	NOT SANITARY
AQUA-AMMONIA	15	30	27	8	Y	Y	N/A	N/A	N/A	N/A	AMMONIUM HYDROXIDE ALTERNATE NAME AVOID DISSIMILAR METALS CLASS 8 WITH TEFLON INSERT BEARINGS
AQUA-AMMONIA-29-30%	15	30	27	8	Y	Y	N/A	N/A	N/A	N/A	AVOID DISSIMILAR METALS CLASS 8 WITH TEFLON INSERT BEARINGS
AQUA-REGIA	NR						N/A	N/A	N/A	N/A	NOT RECOMMENDED
AQUALADE-MONOMER-SEE-NOTES	8				Y		N/A	N/A	N/A	N/A	URETHANE COATING - LIGHT SENSITIVE TEFLON BEARING PLATE INSERTS
AROMATIC-SOLVENTS-(SEE-NOTES)	16	7	8		Y	Y	N/A	N/A	N/A	N/A	INCLUDES: METHANOL, TOLUENE, XYLENE & ISO-PROPYL-ALCOHOL
ARSENIC-ACID-(AQUEOUS)	8				Y	Y	2.5	N/A	N/A	N/A	
ARTIC-DIESEL-FUEL-NO-1	1	7	16		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 FRANGE 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	



LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
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 STEAM JACKET
ASPHALT-180-300-DEG.F	14	37	47		Y	Y		N/A	N/A	N/A	N/A	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	Y		0.8869		170		VISCOSITY 170 - 175 SSU AT 77 F COMPOSITION ASPHALT 65-75% MINERAL SPIRITS (STODDARD) 25-35% GILSONITE 19-23% IT IS USED AS REJUVENATOR AND SEALER OF BITUMINOUS ASPHALT PARKING LOT AND DRIVEWAYS.
ATF	1	16	7	Y	Y	Y		0.87	34	185		AUTOMATIC TRANSMISSION FLUID TRADE NAMES DEXRON AND MERCON
ATLAC-RESIN#382	15	27		Y	Y			N/A	390	1950	N/A	
ATO GUARD-EA20	1	14	37	Y	Y	Y		1				MACHINING COOLANT/LUBRICANT
ATRAZINE---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 CLASS 8 WITH TEFLON INSERT BEARINGS
AV-GAS-(AVIATION-FUELS)	2			Y	Y	Y		0.74	2	35	0.0005	PH-7 ALSO SEE JET FUEL
AZABENZENE	16	20	8	N	Y	N		0.98				AROMATIC SOLVENT BEHAVES AS AN AMINE FORMULA: C5H5N OTHER NAMES: PYRIDINE OR AZINE
AZINE	16	20	8	N	Y	N		0.98				AROMATIC SOLVENT BEHAVES AS AN AMINE FORMULA: C5H5N OTHER NAMES: AZABENZENE, PYRIDINE
BAMANA-OIL-(AMYL-ACETATE)	16	7	20	8	Y			0.879	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS
BARITE	8				Y	Y						MAIN COMPONENT IS BARIUM SULFATE (BaSO4) TRACES OF STRONTIUM POSSIBLE

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
BARIUM-HYDRATE (BARIUM)	7	20	8	Y	Y	Y	1.666	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS UP TO 50% CONCENTRATION AND 122 F STAINLESS STEEL EXCELLENT *HYDROXIDE
BARIUM-HYDROXIDE-(AQUEOUS)	7	20	8	Y	Y	Y	1.65	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS UP TO 50% CONCENTRATION AND 122 F. STAINLESS STEEL EXCELLENT
BARIUM-NITRATE	NR						3.244	N/A	N/A	N/A	NOT RECOMMENDED
BARIUM-SULFATE-(AQUEOUS)	8				Y	Y	N/A	N/A	N/A	N/A	MAIN COMPONENT OF BARITE
BARIUM-SULFIDE-(AQUEOUS)	8				Y	Y	4.25	N/A	N/A	N/A	
BASALIN--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 WITH TEFLON INSERT BEARINGS
BEER	20	8			Y	Y	N/A	N/A	N/A	N/A	TEFLON BEARINGS M-7 MAXIMUM 75 GPM CLASS 20 USE STAINLESS STEEL TIMING GEARS
BEESWAX	14	37			Y	Y	0.95	N/A	N/A	N/A	
BEE-T-SUGAR-LIQUORS	3	14	37	20	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 WITH TEFLON INSERT BEARINGS MAY ALSO BE USED
BEE-T-SUGAR-MOLASSES	3	14	37	8	Y	Y	1.4	60	300	N/A	VISCOSITY 300 SSU AT 122 F CLASS 8 USE TEFLON INSERT BEARINGS
BENZALDEHYDE-(ANHYDROUS)	16	7	8		Y	Y	1.041	N/A	N/A	N/A	
BENZENE	16	7	20	8	Y	Y	0.88	10	50	0.0006	STAINLESS STEEL UP TO 167 F IS EXCELLENT CLASS 20 USE STAINLESS STEEL TIMING GEARS
BENZENE-OR-BENZOL-(ANHYDROUS)	7	20	8		Y	Y	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		Y	Y	N/A	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
BENZINE-(LIGROIN)	16	7	8		Y	Y	N/A	N/A	N/A	N/A	
BENZOIC-ACID	20	8			Y	Y	1.27	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
BENZYL-ALCOHOL	16	7	20	8	Y	Y	1.04	N/A	N/A	N/A	ALUMINUM, CAST IRON & STAINLESS STEEL EXCELLENT CLASS 20 USE STAINLESS STEEL TIMING GEARS
BENZYL-BENZOATE	16	7	8		Y	Y	1.116	N/A	N/A	N/A	ALUMINUM EXCELLENT
BERYLLIUM-SODIUM-CHLORIDE	7	8			Y	Y	1.9	N/A	N/A	N/A	
BETULA-OIL-(METHYL-SALICYLATE)	1	16	7		Y	Y	1.18	N/A	N/A	N/A	
BICEP-HERBICIDE	30	15	27	8	Y	Y	N/A	N/A	N/A	N/A	HERBICIDE (SEE DUAL AND METOLACHLOR) 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	NOTES
				BUNA	PTFE	VITON	OTHER					
BODIESEL-B100	1	16	7	N	Y	Y		0.88	1.9			THE OXYGENATED METHYL ESTERS OF VEGETABLE OIL CAUSE BODIESEL TO HAVE STRONG SOLVENT PROPERTIES. PURE BODIESEL (B100) CAN SWELL AND DEGRADE BUNA-N, NATURAL RUBBER, AND NITRILE. THESE EFFECTS HAVE NOT BEEN OBSERVED WITH BLENDS OF B20 (20% BODIESEL IN FUEL #2).
BIPHENYL (SEE-DIPHENYL)	16	7	8		Y	Y		1	N/A	N/A	N/A	ALUMINUM OR CAST IRON EXCELLENT
BITUMEN	14	37			Y	Y		N/A	200	1000	N/A	VISCOSITY SHOWN AT 212 F
BLADEX--HERBICIDE	30	15	27		Y	Y	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 M-15 MAX. 90 GPM CLASS 8 WITH TEFLON INSERT BEARINGS
BLEACH-20%-WITH-80%-WATER	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED SEE SODIUM HYPOCHLORITE
BLEACHING-LIQUID	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED SEE SODIUM HYPOCHLORITE
BRAKE-FLUID	1	16	7	Y	Y	Y		1.04				MIXTURE OF HYDRAULIC FLUID AND GLYCOL
BRAN-OIL-(ANHYDROUS)	16	7	8		Y			1.1598	N/A	N/A	N/A	SAME AS FURFURAL
BRINE--FOR-MEAT-PROCESSING	8	7			Y	Y		N/A	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	Y		1.203	N/A	N/A	N/A	CL 8 USE NON-PLATED SS316 SLEEVES TEFLON BEARING PLATE INSERTS
BRINE-SOLUTION-(0-TO-26%)	8	7	20	Y	Y	Y		N/A	N/A	N/A	N/A	CAST IRON AND BRASS FOR LIMITED SERVICE -FREE OF AIR STAINLESS STEEL EXCELLENT CL 8 USE NON-PLATED SS316 SLEEVES
BRINE-WINITRATES-&-PHOSPHATES	8				Y	Y		N/A	N/A	N/A	N/A	CL 8 USE NON-PLATED SS316 SLEEVES NOT RECOMMENDED
BROMINE--LIQUID	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
BRUSH-KILLER-2-4D	16	7	8		Y			N/A	N/A	N/A	N/A	PRODUCT IS BASICALLY AN AMINO ACID
BUNKER-C-(OIL)	14	37			Y	Y		0.97	30	150	0.0004	METERING TEMPERATURE 225 DEG F HEAT EXTENSION
BUTADIENE	10				Y	Y		0.6211	10	50	0.0008	
BUTANE-LIQUID	10			Y	Y	Y		0.582	0.1	N/A	0.0011	
BUTANEDIOL-(1,3-BUTYLENE	16	7	8		Y			1.0059	N/A	N/A	N/A	GLYCOL)
BUTANEDIOL-1,4-BUTYLENE-GLYCOL	16	7	8		Y			1.02	1	31	N/A	
BUTANOL-(N-BUTYL-ALCOHOL)	16	7	20		Y	Y	8	0.8109	N/A	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
BUTENE	10				Y			0.6				SEE BUTYLENE
BUTOXYETHANOL	8	16	7	N	Y	Y		0.9	10	50		CLASS 16 AT ROOM TEMPERATURE ONLY. WATER AND SOLVENT-SOLUBLE SOLVENT WITH EXCELLENT DEGREASING ABILITY. OTHER NAMES: BUTYL CELLOSOLVE, ETHYLENE GLYCOL N-BUTYL ETHER, BUTYL GLYCOL.

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
BUTYL-"CARBITOL"	16	7	8		Y		0.9536	N/A	N/A	N/A	SAME AS DIETHYLENE GLYCOL MONOBUTYL ETHER AND DOWANOLDB
BUTYL-ACETATE(N-BUTYL-ACETATE)	16	7	20	8	Y		0.8862	N/A	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		0.8905	6	30	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS AIR ELIM. USE KALREZ/ARMALON SEALS
BUTYL-ACRYLATE-(N-BUTYL)	4	8			Y		0.9015	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
BUTYL-ACRYLATE-(TERT-BUTYL)	4	8			Y		0.8109	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
BUTYL-BENZONATE	16	7	8		Y		1	N/A	N/A	N/A	
BUTYL-CELLOSOLVE-(TRADE-NAME)	8	16	7		Y		0.9	10	50	N/A	CLASS 16 GOOD AT AMBIENT, ROOM TEMP. ONLY FOR ETHYLENE GLYCOL, MONOBUTYL ETHER
BUTYL-CLEANER-(SEE-NOTES)	7	8			Y		N/A	N/A	N/A	N/A	CONSISTS OF: TRISODIUM PHOSPHATE 5%, SODIUM SILICATE 5% BUTYL CELLOSOLVE 5% AND NON IONIC SURFACTANTS 85%
BUTYL-ETHYL-KETONE-BEK	16	7	8		Y		0.8266	N/A	N/A	N/A	
BUTYL-GLYCOL	8	16	7		Y	N					CLASS 16 AT ROOM TEMPERATURE ONLY. SAME AS BUTYL CELLOSOLVE
BUTYL-METHACRYLATE-(N-BUTYL)	4	8			Y		0.895	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
BUTYL-OXITOL	16	7	8		Y	N					CLASS 16 AT ROOM TEMPERATURE ONLY. SAME AS BUTYL CELLOSOLVE
BUTYLACRYLATE-METHYL METHACRYLA	8				Y						BUTYL ACRYLATE METHYL METHACRYLATE (BAMMIA) TRADE NAME: RHOPLEX ACRYLIC EMULSION POLYMER
BUTYLENE-LIQUID	10				Y		0.6	N/A	N/A	N/A	SIMILAR TO BUTENE
BUTYLPHENOL-ORTHO-TERT	8				Y		0.98	N/A	N/A	N/A	PRODUCT FREEZES AT 208 F. HEAT EXTENSION REQUIRED
BUTYL PHTHALATE	16	7	8		Y	Y	1.05	N/A	N/A	N/A	SEE DBUTYL PHTHALATE
BUTYRALDEHYDE	16	7	8		Y		0.8048	N/A	N/A	0.0011	ALUMINUM, CAST IRON OR STAINLESS STEEL EXCELLENT
BUTYRIC-ALCOHOL	16	7	20	8	Y	Y	0.8109	N/A	N/A	N/A	* SEE N-BUTYL ALCOHOL CLASS 20 USE STAINLESS STEEL TIMING GEARS
CALCIUM-CHLORATE	7	8			Y	Y	2.711	N/A	N/A	N/A	
CALCIUM-CHLORIDE-30-34%	7	8			Y	Y	2.15	N/A	N/A	N/A	AVOID DISSIMILAR METALS CL 8 USE NON-PLATED SS316 SLEEVES
CALCIUM-CHLORIDE-46%	7	8			Y	Y	2.15	10	50	N/A	CL 8 USE NON-PLATED SS316 SLEEVES AVOID DISSIMILAR METALS
CALCIUM-FLUORIDE	7	8			Y	Y	2.15	10	50	N/A	PH MUST BE LESS THAN 8
CALCIUM-HYDROXIDE	37	27	20	8	Y	Y	2.34	N/A	N/A	N/A	CAST IRON & STAINLESS STEEL RATED GOOD UP TO 50% CONCENTRATION AND 70 F CLASS 8 WITH TEFLON INSERT BEARINGS CLASS 20 USE STAINLESS STEEL TIMING GEARS

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
	NR			BUNA	PTFE	VITON					
CALCIUM-HYPOCHLORITE-(AQUEOUS)							2.35	N/A	N/A	N/A	NOT RECOMMENDED
CALCIUM-LIGNOSULFONATE	1	7	8	Y	Y	Y	1.225				VISC. 700 CP AT 50F. 50 CP AT 120F BEWARE OF SOLID CONTENT, TYPICALLY 45 % PH RANGE IS 3.0 TO 4.0 PER MSDS SHEET USED IN PAPER/PULP PROCESSING
CALCIUM-NITRATE	8	4		Y	Y	Y					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	1.362	12000	60000	N/A	GLUCOSE 37%, LIQUID SUGAR 14%, FLOUR 22%, STARCH 4%, WATER 23% CLASS 8 W/TEFLON INSERTS
CANE-SYRUP	3	14	37	20	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 W/TEFLON INSERTS MAY ALSO BE USED
CAPRIC-ACID	8	27	15	30	Y	Y	0.84				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		0.953	N/A	N/A	N/A	TRADEMARK FOR A GROUP OF MONO- AND DIALKYL ETHERS OF DIETHYLENE GLYCOL AND THEIR DERIVATIVES
CARBITOL-ACETATE	16	7	8		Y		1.01	N/A	N/A	N/A	SEE DIETHYLENE GLYCOL MONOETHYL ETHER-ACETATE
CARBON-DIOXIDE-CRYOGENIC-LIQ.	NR						1.53	N/A	N/A	N/A	NOT RECOMMENDED
CARBON-TETRACHLORIDE	7	8			Y	Y	1.59	1	30	0.0006	MUST BE CLEAN PURE CHEMICAL (NO WATER) CAST IRON FAIR, STAINLESS STEEL GOOD.
CARBON-TETRACHLORIDE-(SEE-NOTE)	8				Y		1.585	N/A	N/A	N/A	82% CARBON TETRACHLORIDE, 17% SULPHUR DIOXIDE, 16% CARBON BI-SULFIDE
CARBOXYLIC-ACID	8	27	15	30	Y	Y	0.84				SEE "FATTY ACIDS" LISTING FOR DETAILS REFERENCE CAPRIC, DECANOIC, PROPIONIC ACIDS
CARMEL	8				Y		N/A	390	1950	N/A	DO NOT USE 304 STAINLESS STEEL USE TEFLON INSERT BEARINGS
CARNATION-OIL-(MINERAL-OIL)	3	16	8		Y	Y	0.89	N/A	N/A	N/A	*ACID
CASHEW-OIL-HOT-W/5%-SULFURIC	8				Y		N/A	N/A	N/A	N/A	
CASTOR-OIL	3	14	37	20	Y	Y	0.969	N/A	N/A	0.0002	VISC. RANGE 200 TO 3000 SSU.
CASTOR-OIL-ACID	16	7	8		Y		0.94	N/A	N/A	N/A	SAME AS RIGNOLEIC ACID
CATTLE-FEED	37	27	8	47	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 W/TEFLON INSERTS IF ABRASIVE-ADD EDIBLE GREASE TO COVERS
CAUSTIC-CATALYST	37	27	8		Y						MAY CONTAIN AMINE ETHOXYLATES (SURFACTANT)
CAUSTIC-POTASH--SEE-POTASSIUM	37	27	8	47	Y	Y	1.516	N/A	N/A	N/A	POTASSIUM HYDROXIDE 50% SG-1.516 20% SG-1.190 AVOID DISSIMILAR METALS CLASS 8 WITH TEFLON INSERT BEARINGS STAINLESS STL & MILD STEEL GOOD FOR SOLTN OF 10% TO 50% BELOW 130 F. CAST IRON BELOW 100 F

LIQUID TO BE METERED	RECOMMENDED METER CLASS				RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
	7	8	27	37	BUNA	PTFE	VITON	OTHER					
CAUSTIC-SODA-(SEE-SOD.HYD.)	7	8	27	37	Y	Y	Y		1.525	N/A	N/A	0.0001	SEE SODIUM HYDROXIDE (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 METAL NON WEIGHTS & MEASURES APPLICATIONS USE CLASS 27 OR 37
CELLOSOLVE	16	7	8			Y			0.901	N/A	N/A	N/A	SEE BUTYL CELLOSOLVE (ETHYLENE GLYCOL MONOBUTYL ETHER)
CEPACOL-(ALCOHOL)	16	7	8			Y	Y		N/A	N/A	N/A	N/A	
CERACLOR-(CHLORINATE-PARAFFIN)	14	37			Y	Y	Y		N/A	N/A	N/A	N/A	WAX)
CHINA WOOD-OIL-(TUNG-OIL)	3	14	37	8	Y	Y	Y		0.936	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CHLORETHENE-(MONOMER)	7	8			Y				0.912	N/A	N/A	N/A	*VINYL CHLORIDE
CHLORIC-ACID	NR								N/A	N/A	N/A	N/A	NOT RECOMMENDED
CHLORIDIC-ACID-33%	NR								N/A	N/A	N/A	N/A	NOT RECOMMENDED
CHLORINATED-PARAFFIN-WAX	37				Y	Y			0.88	N/A	N/A	N/A	
CHLORINATED-SOLVENTS-SEE-TYPE	7	8			Y	Y			N/A	N/A	N/A	N/A	
CHLORINATED-WATER	NR								N/A	N/A	N/A	N/A	NOT RECOMMENDED
CHLORINE--PURE	NR								N/A	N/A	N/A	N/A	NOT RECOMMENDED
CHLORINE-SOLUTION	NR								N/A	N/A	N/A	N/A	NOT RECOMMENDED
CHLORO-SULPHONIC-ACID	NR								1.76	N/A	N/A	N/A	NOT RECOMMENDED
CHLOROACETIC-ACID	NR								1.58	N/A	N/A	N/A	NOT RECOMMENDED
CHLOROBENZENE	7	8			Y	Y			1.105	N/A	N/A	N/A	CAST IRON OR STAINLESS STEEL GOOD
CHLOROTHYLENE-(MONOMER)	7	8			Y	Y			0.912	N/A	N/A	N/A	*VINYL CHLORIDE
CHLOROFORM	7	8			Y	Y			1.49	1	30	N/A	
CHLOROFORM-(ANHYDROUS)	7	8			Y	Y			1.485	N/A	N/A	N/A	
CHLOROHYDRIN	7	8			Y	Y			1.326	12	60	N/A	
CHLOROMETHANE	7	8			Y	Y			0.92	0.28			ALSO CALLED METHYL CHLORIDE VISCOSITY 28 Cp AT -20 C (-4 F) DO NOT USE ANY ALUMINUM COMPONENTS
CHLOROPRENE	NR								0.9583	N/A	N/A	N/A	NOT RECOMMENDED
CHLOROTHENE-V-C	7	8			Y				N/A	N/A	N/A	N/A	STAINLESS STEEL EXCELLENT
CHOCOLATE-LIQUID	37	14			Y	Y			N/A	N/A	N/A	N/A	FOR SINGLE-CASE (MMA SERIES) METERS, IT IS RECOMMENDED THAT THE COVERS BE FILLED W/EDIBLE GREASE TO PREVENT THE PRODUCT FROM ENTERING AND HARDENING BETWEEN THE COVERS AND BEARING PLATES (DUE TO NO CIRCULATION). CONSTANT TEMPERATURE MUST BE MAINTAINED THROUGHOUT ENTIRE SYSTEM.
CHOLINE-CHLORIDE	37	8			Y				N/A	N/A	N/A	N/A	ANIMAL FEED ADDITIVE DERIVED FROM AGRICULTURAL WASTE OR MADE SYNTHETICALLY

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
	NR			BUNA	PTFE	VITON	OTHER					
CHROMIC-ACID-(AQUEOUS)								2.67	N/A	N/A	N/A	NOT RECOMMENDED UP TO 10% CONCENTRATION AND 70 F ALUMINUM GOOD, OVER 25% CONCENTRATION CAST IRON GOOD
CHROMIUM-SULFATE	8			Y	Y			1.7	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS .5% BASIC CHROMIUM SULFATE, 5% SALT, 2% SODIUM SULFATE CR2(SO4)3.18H2O
CIDER	8			Y	Y	Y		N/A	N/A	N/A	N/A	
CINNAMENE-(STYRENE)	16	7	8	Y	Y			0.9045	N/A	N/A	N/A	
CITRIC-ACID-(AQUEOUS)	8			Y	Y	Y		1.54	N/A	N/A	N/A	UP TO 30% CONCENTRATION AT 70 F
CITRUS-ESSENCE	8			Y	Y			1.05	N/A	N/A	N/A	TEFLON BEARING PLATE INSERTS
CLAY-SLURRY	27	47		Y	Y			N/A	N/A	N/A	N/A	CLASS 27 IS O.K. UP TO A 12% CLAY CONCENTRATION 12% TO 40% CONCENTRATION USE CLASS 47 FILL COVERS WITH GREASE, PLUG BLEED HOLES AND DERATE METERS AS FOLLOWS: UP TO 30% OPERATE AT 60% RATED CAPACITY- UP TO 40% OPERATE AT 30% CAPACITY
COAL-SLURRY-(SEE-NOTES)	37	47		Y	Y	Y		N/A	N/A	N/A	N/A	50% COAL-DUST, 40% NO. 6 OIL, 10% WATER
COAL-TAR	14	37		Y	Y	Y		1.2	N/A	N/A	N/A	
COAL-TAR-PITCH	14	37		Y	Y	Y		1.2	N/A	N/A	N/A	
COBALT-NITRATE-(COBALTOUS)	8			Y	Y			1.88	N/A	N/A	N/A	50% WATER, 50% COBALT NITRATE
COCAMIDOPROPYL-BETAINE	4	8		Y	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	Y	Y	0.862	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
COCOA-BUTTER-(THEOBROMA-OIL)	3	14	37	8	Y	Y	Y	0.862	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
COCOA-LIQUOR	8			Y	Y	Y		N/A	12000	60000		
COCONUT-OIL	3	14	37	8	Y	Y	Y	0.92	N/A	N/A	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS
COD-LIVER-OIL	3	14	37	8	Y	Y	Y	0.918	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
COLLOIDAL-SILICA-AMMONIA-BASE	7	8		Y	Y			1.2	N/A	N/A	N/A	
COLOPHONY	15	8		Y	Y	Y		1.08	N/A	N/A	N/A	A ROSIN RESIDUE WHICH REMAINS AFTER THE VOLATILES HAVE BEEN REMOVED BY DISTILLATION OF CRUDE TURPENTINE CLASS 8 USE TEFLON INSERT BEARINGS
COMPERLAN	8			Y	Y				500	2480		COMPOSED OF FATTY ACIDS & ETHANOLAMINES TEFLON BEARING INSERTS - DE-RATE TO 65%
CONCRETE-ADDITIVE	27			Y	Y	Y		1.05	N/A	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	N/A	NOT RECOMMENDED

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
CONDENSATE-(HYDROCARBON)	1	16				Y	0.75	N/A	N/A	N/A	IRON GEARS
CONTACT-CEMENT	15	8			Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
COOKING-OILS	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
COPOLYMER-ESTER	16	7	8		Y	Y	0.92				COMERCIAL NAME: LUBRIZOL 6662 TYPE: VISCOSITY MODIFIER (COPOLYMER ESTER) SEE ALSO PETROLEUM DISTILLATE CAS # 64742-46-7 VISCOSITY: 4,000 cStk @ 104 F; 250 cStk @ 212 F
COPPER-ACETATE-(AQUEOUS)	7	8			Y		1.9	N/A	N/A	N/A	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	N/A	NOT RECOMMENDED
COPPER-CYANIDE	NR						N/A	N/A	N/A	N/A	NOT RECOMMENDED
COPPER-NITRATE-(AQUEOUS)	8					Y	2.32	N/A	N/A	N/A	
COPPER-SULFATE-(AQUEOUS)	NR						2.28	N/A	N/A	N/A	NOT RECOMMENDED
CORN-EXTRACTIVE-FERMENTED	3	14	37	8	Y	Y	1.2	2000	10000	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORN-OIL	3	14	37	8	Y	Y	0.914	N/A	N/A	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS
CORN-STARCH	NR						N/A	N/A	N/A	N/A	NOT RECOMMENDED
CORN-SYRUP--ISOSWEET-100	3	14	37	8	Y	Y	N/A	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	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORN-SYRUP-43-DEG-BAUME'	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORN-SYRUP-HI-SWEET-42	3	14	37	8	Y	Y	1.346	150	740	N/A	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	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORN-SYRUP-HI-SWEET-90	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORN-SYRUP-HIGH-FRUCTOSE	3	14	37	8	Y	Y	N/A	1040	5200	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORN-SYRUP-ISOSWEET-180	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORN-SYRUP-ISOSWEET-5500	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORNSWEET-42	3	14	37	8	Y	Y	1.346	150	740	N/A	CLASS 8 USE TEFLON INSERT BEARINGS PH=3.5 (ACIDIC)
CORNSWEET-55	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CORNSWEET-90	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
COTTONSEED-&SOYBEAN-OIL	3	14	37	8	Y	Y	0.915	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
COTTONSEED-OIL	3	14	37	8	Y	Y	0.915	70	350	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
CRANBERRY-JUICE	8				Y	Y	N/A	N/A	N/A	N/A	
CRANBERRY-SAUCE-(NOT-JELLIED)	8				Y	Y	N/A	N/A	N/A	N/A	HARD CARBON BEARINGS
CREOSOTE-(COAL-TAR)	14	37	20		Y	Y	1.08	60	300	N/A	



LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
CRESOL-(CRESYLIC-ACID)	8				Y	Y	1.04	20	100	N/A	STAINLESS STEEL EXCELLENT, ALUM. IS RESISTANT TO 212 DEG.F. CARRIER FOR INSECTICIDES
CROP-OILS	1	16	7	Y	Y	Y	N/A	N/A	N/A	N/A	
CRUDE-&SALT-WATER	27			Y	Y	Y	N/A	N/A	N/A	N/A	
CRUDE--HIGH-SULFUR	37			Y	Y	Y	N/A	N/A	N/A	N/A	
CRUDE-OIL	14	37		Y	Y	Y	N/A	N/A	N/A	0.0004	
CRUDE-OIL-SOUR	37			Y	Y	Y	N/A	N/A	N/A	N/A	
CRUDE-OIL-SWEET	14	37	8	Y	Y	Y	N/A	N/A	N/A	N/A	
CUMEME	16	7	8	Y	Y	Y	0.862	N/A	N/A	N/A	ALSO KNOWN AS ISOPROPYLBENZENE ALUMINIUM, CAST IRON OR STAINLESS STEEL GOOD
CUPRIC-CHLORIDE	NR						2.39	N/A	N/A	N/A	NOT RECOMMENDED
CUPROUS-CHLORIDE-SOLUTION	NR						3.35	N/A	N/A	N/A	NOT RECOMMENDED
CUTBACK-ROCKHILL-7001	14	37			Y	Y	N/A	N/A	N/A	N/A	
CUTBACK-ROCKHILL-7038	14	37			Y	Y	N/A	N/A	N/A	N/A	
CUTTING-OILS	1	16	7	Y	Y	Y	N/A	N/A	N/A	N/A	
CYCLOHEXANE	16	7	8		Y	Y	0.779	N/A	N/A	N/A	
CYCLOHEXANOL	16	7	8		Y	Y	0.94	N/A	N/A	N/A	CLASS 16 & 7 RATED GOOD
CYCLOHEXANONE	16	7	8		Y	Y	0.948	N/A	N/A	N/A	ALUMINIUM, CAST IRON & STAINLESS STEEL RATED GOOD ONLY
CYCLOHEXYLAMINE	8	7			Y		0.8683	N/A	N/A	N/A	PH WITH PRESENT IS >10 CLASS 8 PREFERRED CLASS 7 FUNCTIONALLY OK, BUT MAY CONTAMINATE USE TEFLON
CYCLOHEXYLISOCYANATE	7	8			Y		N/A	N/A	N/A	N/A	
CYPRUS-SODIUM-SULFITE	8				Y		N/A	N/A	N/A	N/A	CALGON 40%, DECOLORIZER 20%, CYPRUS 30%
DDT	NR						N/A	N/A	N/A	N/A	
DE-ICING-FLUID	14			Y	Y	Y	1.115				TYPICALLY AN IM7 STYLE METER RECOMMEND HI-TEMP ADJUSTER AIRCRAFT DE-ICING FLUID (ADF) TYPICALLY CONTAINS ETHYLENE GLYCOL W/WARM WATER BEWARE OF VITON LOW TEMP. AMBIENT CONDITIONS
DECANOIC-ACID	8	27	15	30	Y	Y	0.84				ALSO CALLED CAPRIC ACID OR DECYLIC ACID FORM OF CARBOXYLIC OR FATTY ACID CLASS 8 USE TEFLON INSERT BEARINGS SEE "FATTY ACIDS" LISTING
DECYL-ALCOHOL	16	7	20	8	Y	Y	0.829	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
DEHYQUART-A	7	8			Y	Y	1.455				CETRIMONIUM CHLORIDE CETYL TRIMETHYL AMMONIUM CHLORIDE
DENATURED-ALCOHOL	16	7	20	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS ALUMINIUM GOOD, STAINLESS STEEL EXCELLENT

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
	1	7	8	BUNA	PTFE	VITON	OTHER					
DEODORIZED-OIL	1	16	7	Y	Y			N/A	N/A	N/A	N/A	BUNA-N SEALS (NOT FOR HUMAN CONSUMPTION)
DESMODUR-W-METHYLENE	7	8			Y			N/A	N/A	N/A	N/A	
DETERGENTS--SYNTHETIC	7	8		Y	Y	Y		1.2	N/A	N/A	N/A	VISC. RANGE 100 TO 75000 SSU.
DEXTROSE--STALEYDEX-130	3	14	37	8	Y	Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
DI-N-PROPYLAMINE	8				Y			0.72				AVOID DISSIMILAR METALS HIGHLY FLAMMABLE, SKIN IRRITANT
DIACETONE-ALCOHOL	16	7	20	8	Y			0.94	N/A	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS ALUMINUM EXCELLENT AIR ELIM. USE KALREZ/ARMALON SEALS
DIAMMONIUM-PHOSPHATE-AQUEOUS	NR							1.61	N/A	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 AIR ELIM. USE KALREZ/ARMALON SEALS
DICEP--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 WITH TEFLON INSERT BEARINGS
DICHLOROBENZENE	7	8			Y	Y		1.458	N/A	N/A	N/A	
DICHLOROBUTENE	8				Y							
DICHLOROETHANE	7	8			Y	Y		1.2554	N/A	N/A	N/A	CARBON INSERT BEARING PLATES 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			0.979	N/A	N/A	N/A	
DIESEL-FUEL	1	16	7		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		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		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			1.092	N/A	N/A	0.0003	
DIETHYL-SULFATE	16	7	8		Y			1.1803	N/A	N/A	N/A	
DIETHYLANILINE	7	8			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		1.1184	N/A	N/A	0.0004	
DIETHYLENE-GLYCOL-MONOETHYL	16	7	8		Y			0.9536	N/A	N/A	0.0005	*ETHER SAME AS BUTYL "CARBITOL" & DOWANOL DB
DIETHYLENE-GLYCOL-MONOETHYL	16	7	8		Y			1.0272	N/A	N/A	0.0005	*ETHER TRADE NAME "CARBITOL" SOLVENT

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
DIETHYLENE-TRIAMINE	7	8		Y	Y	Y		0.954	N/A	N/A	0.0009	
DIETHYL-HYDROXYLAMINE	8	7			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			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			0.809	N/A	N/A	0.0005	ALUMINUM, CAST IRON OR STAINLESS STEEL EXCELLENT
DIISOBUTYLENE	16	7	8		Y	Y		0.727				USE ALUMINUM OR CAST IRON WITH PURE PRODUCT USE STAINLESS STEEL IF MOISTURE IS PRESENT
DIISOCYANATE	7	8			Y			N/A	N/A	N/A	N/A	
DIISODECYL-PHTHALATE-(DIDP)	16	7	8		Y			0.966	21.4	108	0.0003	PLASTICIZER
DIISOPROPYL-ETHER	16	7	8		Y			0.723	N/A	N/A	N/A	ALUMINUM GOOD, STAINLESS STEEL EXCELLENT SAME AS: ISOPROPYL ETHER
DIISOPROPYL-KETONE	16	7	8		Y			N/A	N/A	N/A	N/A	STAINLESS STEEL EXCELLENT
DIMETHYL-ACETAMIDE	16	7	8		Y			0.9366	N/A	N/A	N/A	
DIMETHYL-ANILINE	8			N	Y	N						USED AS A DYE INTERMEDIATE. SYNONYMS: AMINODIMETHYLBENZENE, AMINOXYLENE, XYLIDINE, DIMETHYLAMINO BENZENE
DIMETHYL-ETHER	12			Y	Y	Y	Y	0.671	N/A	N/A	0.0012	COMPRESSED GAS (AEROSOL PROPELLANT) MAY ATTACK RESIN USED IN CLASS 10 CARBON BEARINGS. 60PSI @ 70F SYSTEM DESIGN SAME AS LPG & NH3. BUNA, VITON, FFKM, AND EP SEALS GOOD TO 70F. NEOPRENE IS NOT RECOMMENDED.
DIMETHYLAMINE-(AQUEOUS)	7	4	8		Y			0.8865	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS AVOID DISSIMILAR METALS
DIMETHYL-CARBINOL-AQUEOUS	16	7	8		Y	Y		0.7863	N/A	N/A	N/A	SAME AS ISOPROPYL ALCOHOL
DIMETHYLFORMAMIDE-(DMF)	16	7	8		Y			0.95	N/A	N/A	0.0045	USE SS BASKET IN STRAINER
DIMETHYLKETONE	16	7	8		Y			0.792	N/A	N/A	N/A	SAME AS ACETONE
DIETHYL-PHTHALATE-PLASTICIZER	14	37			Y	Y		0.99	64	320	0.007	(DOP) COEFFICIENT AT 68 DEGREES F SAME AS DI(2-ETHYLHEXYL) PHTHALATE
DIPHENYL	16	7	8		Y	Y		1	N/A	N/A	N/A	SAME AS BIPHENYL
DIPHENYL-AMINE	8				Y			1.159	65	345	N/A	ALSO CALLED DPA
DIPHENYL-OXIDE	7	8			Y	Y		1.74	N/A	N/A	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS				RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
	1	7	8	16	17	27	37	8					
DIPROPYLENE-GLYCOL	1	16	7						1.025	N/A	N/A	0.0004	
DIPROPYLMETHANE	16	7	8					Y	0.6836	N/A	N/A	N/A	SAME AS HEPTANE
DIVINYLBENZENE	14	37						Y	0.9289	N/A	N/A	N/A	METERING TEMPERATURE 200 DEG F INCLUDE HEAT EXTENSION
DKP	8							Y	1.54				DIPOTASSIUM PHOSPHATE PHOSPHORIC ACID/DIPOTASSIUM SALT
DODECYLBENZENE	7	8						Y	0.86	N/A	N/A	N/A	
DODECYLBENZENESULFONIC-ACID	NR								N/A	N/A	N/A	N/A	NOT RECOMMENDED SAME AS SODIUM DODECYLBENZENESULFONATE
DOWANOL-DB	16	7	8					Y	0.9536	N/A	N/A	N/A	SAME AS DIETHYLENE GLYCOL MONOBUTYL ETHER AND BUTYL "CARBITOL"
DRILLING-MUD-(BAROID)	NR							Y	2.5	80	430		BAROID 3-35%, DIESEL 60-80%, CLAY 1-2%, WATER 10-40% POSSIBLE CLASS 47 (M30 SIZE ONLY)
DUAL--HERBICIDE	30	15	27	8				Y	N/A	N/A	N/A	N/A	HERBICIDE (SEE BICEP AND METOLACHLOR) 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
DUTCH-OIL-(ANHYDROUS)	8							Y	1.255	N/A	N/A	N/A	SAME AS ETHYLENE DICHLORIDE
DYE	8							Y	N/A	N/A	N/A	N/A	
DYMEL-152A	10							Y	0.9				DIFLUOROETHANE OR FREON BASED TEFLON SEALS PREFERRED DUE TO LOW TEMPS
E85-FUEL	7	8						Y	0.78				85% ETHANOL - 15% GASOLINE FOR FLEXIBLE FUEL VEHICLES **SOME MATERIALS COMMONLY USED WITH GASOLINE MAY DISSOLVE IN THE FUEL WHEN THEY COME IN CONTACT WITH ETHANOL. AVOID ZINC, BRASS, LEAD, OR ALUMINUM**
E86*MOTOR-FUEL													
EDTA-(HAMPENE)	7	8						Y	N/A	N/A	N/A	N/A	*ABBREVIATION FOR: ETHYLENEDIAMINETETRA-ACETIC ACID
EFFLUENT	8							Y					PHOTOGRAPHIC PROCESS EFFLUENT MAY CONTAIN SILVER NITRATES PH RANGE UP TO 10.0
EMPICRYL-HV226	15							Y	0.925	1200	5620		DERATE TO 58% MAX FOR TEFLON INSERTS ALKYL METHYL ACRYLATE POLYMER
EMULSIFIED-OIL	1	16	7					Y	N/A	2500	11600	N/A	
ENAMEL	14	37						Y	N/A	N/A	N/A	N/A	
EPON-1001	15	27	8					Y	N/A	10000	50000	N/A	CLASS 8 WITH TEFLON INSERT BEARINGS
EPOXY	15	27	8					Y	1.1	2500	11600	N/A	CLASS 8 WITH TEFLON INSERT BEARINGS
EPOXY-RESIN	15	27	8					Y	N/A	N/A	N/A	N/A	260 SSU TO 1475 SSU CLASS 8 WITH TEFLON INSERT BEARINGS

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
EPOXY-RESIN-&AMIN-CAT.	8				Y			N/A	4600	N/A	PH 14 USE TEFLON INSERT BEARINGS
EPOXY-RESIN-MIX-(SEE-NOTES)	15	27	8		Y			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 CLASS 8 USE TEFLON INSERT BEARINGS
EPOXY-RESINS	15	27	8		Y			1.15	46500	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
ERADICANE---HERBICIDE	30	15	27	8	Y			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
ETHANAMINE,N-ETHYL-N-HYDROXY								N/A	N/A	N/A	SEE DIETHYL-HYDROXYLAMINE
ETHANE-LIQUID	10				Y	Y		0.446	N/A	N/A	
ETHANOL	16	7	8		Y	Y	Y	0.804	N/A	0.0006	KALREZ OK, VITON POSSIBLY OK FOR STATIC SEALS WHEN ETHANOL IS MIXED WITH GASOLINE AND ETHANOL'S CONTENT IS MORE THAN 15%, USE CLASS 7 (CAST IRON). ALUMINUM MAY DISSOLVE IN THE FUEL WHEN IT COMES IN CONTACT WITH ETHANOL.
ETHANOL-ALCOHOL-2-B	16	7	8		Y			0.78	30	N/A	
ETHANOL-ALCOHOL-SOLUTION	16	7	8		Y	Y	Y	0.79	30	N/A	*92-1/2% ETHANOL-ALCOHOL, 7-1/2% WATER
ETHANOL-CHLORIDE	NR							N/A	N/A	N/A	NOT RECOMMENDED
ETHANOLAMINE	7	8			Y			0.689	N/A	0.0004	CAST IRON OR STAINLESS STEEL EXCELLENT
ETHER	20	8			Y			0.736	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ETHOXYQUIN-(SEE-NOTES)	7	8			Y			1.02	N/A	N/A	COINED NAME FOR: 6-ETHOXY-1,2-DIHYDRO-2,2,4- TRIMETHYL QUINOLINE NONEDIBLE ANIMAL FEED
ETHYL-ACETATE	16	7	20	8	Y			0.89	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 AIR ELIM. USE KALREZ/ARMALON SEALS
ETHYL-ACETATE-&-ORGANIC	8				Y			N/A	N/A	N/A	*ACETATE STAINLESS STEEL GEARS,CARBON BEARINGS
ETHYL-ACETATE-(ANHYDROUS)	16	7	20	8	Y			0.883	N/A	0.0007	
ETHYL-ACRYLATE	8				Y			0.92	N/A	N/A	
ETHYL-ALCOHOL	16	7	20	8	Y	Y	Y	0.816	30	0.0006	ALUMINUM GOOD, STAINLESS STEEL EXCELLENT CLASS 20 USE STAINLESS STEEL TIMING GEARS KALREZ OK, VITON POSSIBLY OK FOR STATIC SEALS
ETHYL-ALCOHOL-&-DIESEL-FUEL	1	16	7	20	Y			N/A	N/A	N/A	
ETHYL-ALCOHOL-&-WATER-SEE-NOTE	4	8			Y			0.79	30	0.0006	40-80% ETHYL ALCOHOL WITH 20-60% WATER OR, 60-80% ETHYL ALCOHOL WITH 20-40% WATER
ETHYL-ALCOHOL---SOLOX	16	7	8		Y			0.79	30	0.0006	

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
ETHYL-ALCOHOL-50%-(SEE-NOTES)	7	8			Y	Y		0.79	N/A	N/A	N/A	50% ETHYL-ALCOHOL, 50% SULFORATED ALKYLAROMATIC COMPOUND CARBON BEARING PLATE INSERTS
ETHYLAMINE	7	4	8		Y			0.689	N/A	N/A	N/A	*AMINOETHANE" REF. CLASS 4 USE STAINLESS STEEL TIMING GEARS AVOID DISSIMILAR METALS ALSO SEE MONOETHYLAMINE
ETHYLBENZENE	16	7	8		Y	Y		0.867	N/A	N/A	N/A	
ETHYLENE-ALCOHOL	16	7	8		Y	Y		1.115	N/A	N/A	N/A	ALUMINIUM, CAST IRON OR STAINLESS STEEL EXCELLENT
ETHYLENE-CHLORIDE	7	8			Y	Y		1.26	1	30	N/A	*SAME AS ETHYLENE DICHLORIDE
ETHYLENE-DIAMINE	7	8			Y	Y		0.9	1	30	0.0009	AVOID DISSIMILAR METALS
ETHYLENE-DIBROMIDE	8				Y	Y		2.17	N/A	N/A	N/A	STAINLESS STEEL GOOD
ETHYLENE-DICHLORIDE	7	8			Y	Y		1.26	1	30	N/A	
ETHYLENE-GLYCOL	1	16	7	20	Y	Y		1.15	20	100	0.0004	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ETHYLENE-GLYCOL-99.99%-PURE	1	16	7	20	Y	Y		1.12	20	100	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
ETHYLENE-GLYCOL-MONOBUTYL	8	16	7		Y	Y		0.9424	N/A	N/A	0.0005	*ETHER SAME AS BUTYL CELLOSOLVE
ETHYLENE-OXIDE	8	15			Y	Y		0.8711	N/A	N/A	N/A	MAGNETIC DRIVE REQUIRED HIGHLY FLAMMABLE - NO LEAKS TOLERATED PH=7
ETHYLENE-VINYL-ACETATE	8				Y	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	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 DEPEND ON SPECIFIC FATTY ACID ALUMINIUM CLASS 15 & 30 SHOULD NOT BE SPECIFIED IF FATTY ACID IS ANHYDROUS & BEING HANDLED AT THEIR BOILING POINT CLASS 08 USE TEFLON BEARING INSERTS
FATTY-AMINE-(ASPHALT-ADDITIVE)	8				Y	Y		0.96	800	4000	N/A	
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 STAINLESS STEEL EXCELLENT
FERRIC-NITRATE	NR							1.684	N/A	N/A	N/A	NOT RECOMMENDED
FERRIC-SULFATE	NR							3.097	N/A	N/A	N/A	NOT RECOMMENDED STAINLESS STEEL GOOD
FERRIC-SULPHATE-ACID-40%	8				Y	Y		2.1	N/A	N/A	N/A	
FERROUS-CHLORIDE-(AQUEOUS)	NR							1.93	N/A	N/A	N/A	NOT RECOMMENDED
FERROUS-SULPHATE	8				Y	Y		1.89	N/A	N/A	N/A	ALUMINIUM EXCELLENT UP TO 10% CONCENTRATION AT 70 F STAINLESS STEEL GOOD
FERTILIZER,-10-10-10	27	47			Y	Y		N/A	N/A	N/A	N/A	
FERTILIZER,-3-18-18	27	47			Y	Y		N/A	N/A	N/A	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
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 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% OF RATED CAPACITY UP TO 40% OPERATE @ 30% OF RATED CAPACITY.
FERTILIZER--OLIN-0-14-0	27	47			Y		N/A	N/A	N/A	N/A	
FERTILIZER-10-34-0	27	47			Y		N/A	N/A	N/A	N/A	
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	
FIRE-TROL-103	8				Y	Y	1.025	50	260		USED AS FIREFOAMING AGENT PH=9.0 TO 9.5 USE UNPLATED ROTOR SLEEVES
FISH-EMULSION	8				Y	Y	N/A	N/A	N/A	N/A	
FISH-OIL	3	14	37	8	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	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 METERING TEMPERATURE 400 DEG F STEAM JACKET & HEAT EXTENSION
FORMALDEHYDE	4	20	8		Y		1.1	1	30	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS CLASS 4 ALUMINUM GOOD TO 158 F (70C) 37 TO 50 % SOLUTIONS ARE COMMERCIALY AVAILABLE ALSO KNOWN AS FORMALIN CLASS 20 USE STAINLESS STEEL TIMING GEARS
FORMALDEHYDE-MIXTURE	4	8			Y		N/A	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS 40% FORMALDEHYDE, 7% WATER, 53% ALCOHOL
FORMALIN	4	20	8		Y		0.82	1	30	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS SEE FORMALDEHYDE CLASS 20 USE STAINLESS STEEL TIMING GEARS
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	N/A	
FREON-11-B	10				Y	Y	N/A	60	300	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
FREON-ANHYDROUS--11	10			Y	Y	Y	1.48	N/A	N/A	0.0008	
FREON-ANHYDROUS--112	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-ANHYDROUS--114	10			Y	Y	Y	1.46	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 ALSO CALLED PURON AND SUVA 9100
FUEL-OIL-#1	1	16	20	7	Y	Y	0.85	1.9	34	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS ALSO SEE DIESEL APPLICATIONS
FUEL-OIL-#2	1	16	20	7	Y	Y	0.87	3	36	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
FUEL-OIL-#3	1	16	20	7	Y	Y	0.9	N/A	N/A	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS NO INFO. AVAILABLE ON VISCOSITY
FUEL-OIL-#4	1	16	20	7	Y	Y	0.95	21	105	0.0005	CLASS 20 USE STAINLESS STEEL TIMING GEARS
FUEL-OIL-#5	1				Y	Y	0.9	N/A	N/A	0.0005	CLASS 2 OR 14 MAY ALSO BE USED VISC. VARIES FROM 10-55 CP (60-290 SSU)
FUEL-OIL-#6	1				Y	Y	0.97	50	250	0.0005	REPLACE PLASTIC GEARS WITH METAL IN M-5 CLASS 2 OR 14 MAY ALSO BE USED
FUEL-OIL-(BOILER-FEED-BYPASS)	14	37			Y	Y	N/A	N/A	N/A	N/A	
FUEL-OIL--RESIDUAL	14	37			Y	Y	N/A	500	2500	N/A	
FUEL-OIL-WITH-3.5%-SULFUR	37				Y	Y	N/A	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 DE-RATE BASED ON TEFLON INSERT BEARINGS
FUMIGANT--INSECTICIDE	30	15	27	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
FUNDAL	8				Y	Y	N/A	N/A	N/A	N/A	
FURAN-RESIN	8				Y	Y	0.938	N/A	N/A	N/A	
FURFURAL-(ANHYDROUS)	16	7	8		Y	Y	1.1598	N/A	N/A	N/A	ALUMINUM EXCELLENT
FURFURYL-ALCOHOL	16	7	20	8	Y	Y	1.1285	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	NOTES
	1	7	20	BUNA	PTFE	VITON					
GASOHL-10%-ETHANOL	1	16	7	20	N	Y	Y	0.72		0.0006	NO INFO. AVAILABLE ON VISCOSITY IF THE CONTENT OF ETHANOL IS MORE THAN 15% USE CLASS 7, CAST IRON. SOFT MATERIALS SUCH AS ALUMINUM MAY DISSOLVE IN THE FUEL WHEN THEY COME IN CONTACT WITH ETHANOL. BUNA-N IS NOT RECOMMENDED FOR SEALS, BUT OK IN GASKETS
GASOLINE---AVIATION	2				Y	Y	Y	0.71	30	0.0005	ALSO SEE AV GAS AND JET FUELS
GASOLINE---LEADED	1	16	7	20	Y	Y	Y	N/A	N/A	0.0006	
GASOLINE---MOTOR	1	16	7	20		Y	Y	N/A	N/A	0.0006	
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
GASOLINE-UNLEADED	1	16	7	20	Y	Y	Y	0.75	33	0.0006	PH=7 ADDITIVE IS UP TO 10% ETHANOL OR UP TO 15% MTBE
GLUCOSE	3	14	37	8	Y	Y	Y	1.54	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS GRAPE SUGAR AND CORN SUGAR
GLUE-(SEE-NOTES)	15	27	8			Y		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	CLASS 8 USE TEFLON INSERT BEARINGS
GLYCERIN-OR-GLYCEROL	16	7	20	8	Y	Y	Y	1.265	N/A	0.0003	CLASS 8 USE TEFLON INSERT BEARINGS
GLYCEROL-MONOSTEARATE	15	8				Y	Y	0.97	145	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
GLYCOL	1	16	7		Y	Y	Y	1.1155	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS SAME AS: ETHYLENE GLYCOL
GLYCOL-&-WATER-SOLUTION	1	14	16	4	Y	Y	Y	1.115	N/A	N/A	CLASS 1 OR 16 FOR WTS. & MEAS. APPLICATIONS FOR OVER 180 F USE CLASS 14 OR 04
GLYCOL-70-90%-W/30-10%-WATER	1	16	14	4	Y	Y	Y	1.115	N/A	N/A	CLASS 1 OR 16 FOR WTS. & MEAS. APPLICATIONS FOR OVER 180 F USE CLASS 14 OR 04
GLYCOL-ESTER-OF-(SEE-NOTES)	16	7	8			Y	Y	N/A	120	N/A	BENZOIC ACID & ISOBUTYRIC ACID
GLYCOL-ETHERS-AND	7	8				Y		N/A	N/A	N/A	PETROLEUM NAPHTHA-CHLORINATED SOLVENTS AND KETONES ALL PRODUCTS THROUGH ONE METER CARBON INSERT BEARING PLATES
GLYCYL-ALCOHOL	16	7	8			Y	Y	1.2653	N/A	N/A	ALSO SEE GLYCERIN & GLYCEROL
GLYFOS	8					Y		1.16	230		GLYPHOSATE HERBICIDE PH=4.5 DO NOT USE WITH IRON, GALVANIZED, OR UNLINED STEEL CL 8 USE TEFLON INSERT BEARINGS
GRAIN-ALCOHOL	16	7	8		Y	Y	Y	1.2	N/A	0.0005	SAME AS ETHYLALCOHOL
GRAPE-&-APPLE-CONCENTRATE	8					Y		N/A	N/A	N/A	
GRAPE-JUICE	8					Y	Y	N/A	N/A	N/A	
GRAPE-JUICE-CONCENTRATE	8					Y	Y	N/A	N/A	N/A	
GRAPEFRUIT-JUICE	8					Y	Y	N/A	N/A	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
GRAPEFRUIT-JUICE-CONCENTRATE	8				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	N/A	N/A	N/A	N/A	
HAZELNUT-PASTE	8				Y		1.1				VISCOSITY @ 70 C (158 F), 7000 Centipoise 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	
HYDRASOL-LW18Z	1			Y	Y	Y	0.892	43	225		pH=9 (5% CONCENTRATION IN DI WATER) 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	N/A	N/A	N/A	N/A	
HYDROCHLORIC-ACID	NR						1.19	N/A	N/A	N/A	NOT RECOMMENDED
HYDROFLUORO-ZIRCONIC-ACID	8				Y						USE TEFLON SEALS AND INSERT BEARINGS PH LESS THAN 1 (ONE) USE ONLY IF SS316 PUMPS, PIPING, TANKS, ETC. ARE OK
HYDROGEN-(CRYOGENIC-LIQ.)	NR										NOT RECOMMENDED
HYDROGEN-PEROXIDE	8				Y		N/A	N/A	N/A	N/A	MUST BE PASSIVATED AS PER DUPONT SPECIFICATIONS STAINLESS STEEL 316 IS RATED AS A CLASS 2 MATERIAL ON HYDROGEN PEROXIDE-THIS MEANS SHORT-TIME TRANSFER CONTACT WITH PEROXIDE. GLANDLESS PIG. ORING SEALS & FIBREGLASS/TEFLON BRGS.
INK---CARBON-BLACK-(SEE-NOTES)	37				Y	Y	N/A	N/A	N/A	N/A	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 NOT EXCEED 8 PSI PRESSURE LOSS
INK---NEWSPAPER-PRINTING	37				Y	Y	N/A	N/A	N/A	N/A	SEE INK - CARBON BLACK
INK---PRINTING	1				Y	Y	N/A	N/A	N/A	N/A	OPERATION AT 30% OF RATED CAPACITY OR LESS RECOMMENDED FOR EXTENDED SERVICE LIFE VISCOSITY MAY VARY ...DO NOT EXCEED 8 PSI PRESSURE LOSS
INK---ROTO-GRAVURE	1				Y	Y	N/A	N/A	N/A	N/A	
INK---VARNISH	37				Y		N/A	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	N/A	SEE INK - ROTOGRAVURE
INSECTI-SOL	16	7	8		Y	Y	0.764	N/A	N/A	N/A	CARBON BEARING PLATE INSERTS HARD CHROME ROTOR SLEEVES
IODINE	NR						4.98	N/A	N/A	N/A	NOT RECOMMENDED
IRON-OXIDE-SLURRY	NR						N/A	N/A	N/A	N/A	NOT RECOMMENDED
ISO-BUTANE-LIQUID	10			Y	Y	Y	0.56	N/A	N/A	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
ISO-BUTANOL	16	7	8	Y	Y	Y		0.806	N/A	N/A	0.0006	ALUMINUM EXCELLENT, SAME AS ISOBUTYL-ALCOHOL
ISO-BUTYL-ACETATE	16	7	8		Y			0.8685	N/A	N/A	0.0006	
ISO-BUTYL-ALCOHOL	16	7	8	Y	Y	Y		0.806	N/A	N/A	0.0005	ALUMINUM EXCELLENT, SAME AS ISO-BUTANOL*
ISO-BUTYL-KETONE	16	7	8		Y			N/A	N/A	N/A	N/A	
ISO-HEXANOL	16	7	8	Y	Y	Y		0.818	N/A	N/A	N/A	
ISO-PHORONE	16				Y		Y	0.9229	2.62	36	N/A	TEFLON AND EPDM SEALS ARE GOOD KALREZ RECOMMENDED FOR >70 F
ISO-BUTYL-ISOBUTYRATE	16	7	8		Y			0.857	N/A	N/A	N/A	TOXIC BY INHALATION
ISOCYANATE	8				Y	Y		1.2	N/A	N/A	0.0008	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	Y		0.6919	N/A	N/A	N/A	
ISOPARAFFINIC-SOLVENT	8				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	N/A	
ISOPHORONE-DIISOCYANATE	7	8			Y			1.06	15	80		PRODUCT NAME IS VESTANAT
ISOPROPANOL	7	8		Y	Y	Y		0.7863	N/A	N/A	0.0005	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 (ARMOLOY) IN PRESENCE OF ISOPROPYL ALCOHOL.
ISOPROPANOLAMINE	16	7	8		Y			0.9619	N/A	N/A	N/A	
ISOPROPYL-ACETATE	16	7	8		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 (ARMOLOY) IN THE PRESENCE OF ISOPROPYL-ALCOHOL
ISOPROPYL-BENZENE	16	7	8		Y	Y		0.862	N/A	N/A	N/A	SAME AS CUMENE
ISOPROPYLAMINE	8	7			Y			0.688	N/A	N/A	N/A	
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 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	NOTES
				BUNA	PTFE	VITON					
JET-B	2			Y	Y	Y	0.775				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
KEROSENE-K1	1	16	7	20	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	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
LACTAMI	8				Y	Y	N/A	N/A	N/A	N/A	
LACTOL-SPIRITS	16	7	8		Y	Y	N/A	N/A	N/A	N/A	
LANOLIN	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LARD	3	14	37	8	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LARD-OIL	3	14	37	8	Y	Y	0.915	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LASSO--HERBICIDE	30	15	27	8	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 CLASS 8 USE TEFLON INSERT BEARINGS
LASSO-ME--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
LATAX--AKLALINE	27	8			Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LATEX	15	27	8		Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LATEX-(AMMONIA-FORMALDEHYDE)	15	27	8		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	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LATEX-EMULSIONS	15	27	8		Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS EXAMPLE ROHM & HAAS AC-234 SHEAR SENSITIVE LIQUID...SEE LCC BULLETIN 271 WHEN SELECTING CLASS 8 SPECIFY TFE INSERT BEARINGS EXTRA DRAIN HOLES IN COVERS RECOMMENDED FOR FLUSHING OPERATION AT 3RD OF RATED CAPACITY OR LESS RECOMMENDED

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
LAURIC-ACID	4	8		Y	Y	Y		0.833	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
LC-40-RHOPEX	15	27	8		Y			1.07	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
LEAD-ACETATE-SOLUTION	8				Y			2.5	N/A	N/A	N/A	
LEAD-OCTATE	15	8			Y							RAW MATERIAL FOR PAINT
LEMON-JUICE	8				Y	Y		N/A	N/A	N/A	N/A	
LIGNIN-SULFONATE	1			Y	Y	Y		1.2	2000	10000	N/A	
LIGNUM-SULPHONATE-(SEE-NOTES)	1			Y	Y	Y		1.525	N/A	N/A	N/A	WOOD MOLASSES D(+)-XYLOSE
LIME-SLURRY-35%	7	8			Y	Y		N/A	N/A	N/A	N/A	
LINEAR-ALKYL BENZENE	16			N	Y	Y		0.854	18		0.00053	
LINEAR-ALKYL BENZENE	16			N	Y	Y		0.854	18		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
LIQUID-FEED	37	27	8	Y	Y	Y		1.2	N/A	N/A	N/A	DO NOT EXCEED 4 PSI PRESSURE LOSS ON CLASS 27 OR 8 VISCOSITY MAY EXCEED 100,000 SSU ... SOME LIQUID FEEDS ARE VERY ABRASIVE: EXAMPLE PURINA'S SUPERLIX WHICH REQUIRES EXTRA DRAINS IN TOP OF COVERS-PLUG BLEED HOLES IN HOUSING & COVERS FILLED WITH EDIBLE GREASE BY CUSTOMER
LIQUID-FEED-SUPPLEMENT	37	27	8	Y	Y	Y		N/A	N/A	N/A	N/A	DO NOT EXCEED 4 PSI PRESSURE LOSS ON CLASS 27 & 8 SEE TEXT NOTES ON "LIQUID FEED" REGARDING VISCOSITY AND POSSIBLE ABRASIVE CONTENT
LIQUID-GAS--NATURAL	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
LIQUID-NITROGEN-CRYOGENIC	NR											NOT RECOMMENDED
LIQUID-OXYGEN-CRYOGENIC	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
LING-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
LUBE-OIL	1	14	37		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	MGCL2 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 CAST IRON & STAINLESS
MAGNESIUM-NITRATE-(AQUEOUS)	8			Y	Y	Y		1.46	N/A	N/A	N/A	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		1.678	N/A	N/A	N/A	AVOID DISSIMILAR METALS UP TO 70% CONCENTRATION & 200 F ALUMINUM EXCELLENT CAST IRON EXCELLENT IN ALL CONCENTRATIONS

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
	8	15	30	BUNA	PTFE	VITON					
MALATHION-PESTICIDE	8	15	30		Y		1.2315				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 158 DEGREES F. ALUMINUM EXCELLENT CONCENTRATION NO MORE THAN 20% AND 70 F, OTHERWISE USE STAINLESS STEEL
MANGANESE-CHLORIDE	8				Y	Y	2.98	N/A	N/A	N/A	MINCL2
MANGANESE-SULFATE	7	8			Y	Y	2.107	N/A	N/A	N/A	
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 ISOCYANATES ARE SLIGHTLY CORROSIVE TO COPPER AND ALUMINUM. COPPER, ZINC, AND IRON ALLOYS CAUSE PRODUCT DEGRADATION. TRADE NAME: MONDUR M (BAYER)
MELAMINE-&-FORMALDEHYDE	7	8			Y		1.573	N/A	N/A	N/A	
MELAMINE-FORMALDEHYDE-RESIN-W/	27	8			Y		1.573	N/A	N/A	N/A	FORMALIN
MELAMINE-RESINS	27	8			Y		1.573	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
MERCAPTAN	16	8			Y	Y	0.85	3	36		CLASS 8 USE TEFLON INSERT BEARINGS NOW REFERRED TO AS THIOLS IN COMPOUNDS
MERCURIC-CHLORIDE-(AQUEOUS)	NR						5.44	N/A	N/A	N/A	NOT RECOMMENDED
MERCURIC-CYANIDE-(AQUEOUS)	NR						4.01	N/A	N/A	N/A	NOT RECOMMENDED
MERCUROUS-NITRATE, HYDRATED	NR						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 DIETHYLKETONE
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	0.79	1	30	0.0007	ASSUMES NO WATER PRESENT ... ONLY METHANOL KALREZ OK, VITON NOT RECOMMENDED SAME AS METHYL-ALCOHOL AVOID DISSIMILAR MATERIALS CLASS 20 USE STAINLESS STEEL TIMING GEARS
METHANOL/WATER-MIXTURE	20	8			Y						VITON SEALS NOT RECOMMENDED SAME AS METHYL-ALCOHOL/WATER MIXTURE AVOID DISSIMILAR MATERIALS CLASS 20 USE STAINLESS STEEL TIMING GEARS
METHOXYPROPANOL	16	7	8		Y	Y	0.924	2.21			OTHER NAMES: 1-METHOXY-2-PROPANOL; PROPYLENE GLYCOL METHYL ETHER; PGME; ALPHA ISOMER. OXYGENATED SOLVENT. FLAMMABLE. PRODUCT FAMILY: GLYCOL ETHER.
METHYL-ACETATE	16	7	8		Y		0.9243	N/A	N/A	0.0007	
METHYL-ACETYLENE-PROPANOL	16	10	7	8	Y		0.7				BUNA & VITON SEALS NOT RECOMMENDED BOILING POINT -23C OR -9F

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
METHYL-ACRYLATE	4	8			Y			0.96	1	30		METHYL ESTER OF ACRYLIC ACID CLASS 4 USE SS316 TIMING GEARS
METHYL-ALCOHOL	16	7	20	8	Y		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
METHYL-ALCOHOL/WATER-MIXTURE	20	8			Y							VITON SEALS NOT RECOMMENDED SAME AS METHANOL/WATER MIXTURE AVOID DISSIMILAR MATERIALS CLASS 20 USE STAINLESS STEEL TIMING GEARS
METHYL-BROMIDE	7	8			Y		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		Y	0.92	0.28	N/A	N/A	ALSO CALLED CHLOROMETHANE VISCOSITY 28 Cp AT -20 C (-4 F) DO NOT USE ANY ALUMINUM COMPONENTS
METHYL-CHLOROFORM	7	8			Y			1.325	N/A	N/A	N/A	SAME AS 1,1,1-TRICHLOROETHANE
METHYL-DIISOCYANATE	7	8			Y			N/A	N/A	N/A	N/A	
METHYL-ETHYL-KETONE	16	7	8		Y		Y	0.82	1	5	0.0007	ALSO KNOWN AS MEK EP OR EPDM SEALS ARE THE MOST COMPATIBLE.
METHYL-FORMCEL-(SEE NOTES)	7	8			Y			N/A	N/A	N/A	N/A	CONSISTS OF: 55% FORMALDEHYDE, 35% METHANOL, AND 10% WATER
METHYL-GLYCOL	1	16	7		Y		Y	1.038	N/A	N/A	N/A	SAME AS PROPYLENE GLYCOL
METHYL-ISOBUTYL-KETONE-(MIBK)	16	7	8		Y			0.801	N/A	N/A	0.006	
METHYL-METHACRYLATE	16	8			Y			0.94	6	30	N/A	USE STAINLESS STEEL TIMING GEARS
METHYL-OXITOL	7	8			Y			0.9663	N/A	N/A	N/A	TRADE NAME FOR: ETHYLENE GLYCOL MONOMETHYL ETHER
METHYL-PENTANE	16	7	8		Y		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		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
METHYLENE-CHLORIDE	7	8			Y		Y	1.32	0.41		0.0008	PRODUCT MUST BE FREE OF WATER AVOID DISSIMILAR METALS
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. CARBON BEARING PLATE INSERTS

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
METHYLENE-DICHLORIDE	7	8			Y		1.335	1	5	N/A	SEE METHYLENE CHLORIDE AVOID DISSIMILAR METALS
METHYLENE-DIPHENYL	7	8			Y		N/A	N/A	N/A	N/A	
METOLACHLOR	30	15	27	8	Y	Y					HERBICIDE (SEE DUAL AND BICEP) 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
MICRO-CRYSTALLINE-WAX-SEE-NOTE	16	7	8		Y	Y	N/A	N/A	N/A	N/A	CONTAINS: 50% NAPHTHA & 50% MICRO CRYSTALLINE WAX
MINERAL-OIL	1	3	7	8	Y	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	Y	N/A	N/A	N/A	N/A	
MINERAL-SPIRITS	16	7	20	8	Y	Y	N/A	N/A	N/A	0.0006	DELFIN OK WITH SOLVENTS
MINERAL-TURPENTINE-LUSH	16	7	8		Y	Y	0.79	0.65	20	0.0006	ALSO KNOWN AS MTL
MIRA-70	8				Y		1.2				CONCRETE ADDITIVE PH 7-10 AND CONTAINS AMINES AND ACIDS
MOLASSES-(FOR-CATTLE-FEED)	37				Y	Y	N/A	N/A	N/A	0.00043	
MOLASSES-(SUPER-LIX-...-NOTES	37				Y	Y	N/A	N/A	N/A	0.00043	RALSTON PURINA) NEED EXTRA DRAIN PLUGS AND PLUGGED BLED HOLES IN HOUSING
MOLASSES-CRUDE-MOTHERS-LIQUOR	37				Y	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	
MONOCHLOROACETIC-ACID	NR						N/A	N/A	N/A	N/A	NOT RECOMMENDED
MONOCHLOROBENZENE	7	8			Y	Y	1.105	N/A	N/A	N/A	SAME AS CHLOROBENZENE CAST IRON & STAINLESS STEEL GOOD
MONOCHLOROBENZENE-ORTHO-MF	7	8			Y	Y	1.105	N/A	N/A	N/A	AND MONOCHLOROBENZENE ORTHO-R PRODUCT MUST BE FREE OF CHLORINE GAS AND H2O
MONOETHANOLAMINE	7	8			Y		0.689	N/A	N/A	0.0004	SAME AS: ETHANOLAMINE
MONOETHYLAMINE	7	4	8		Y		0.689	N/A	N/A	N/A	AVOID DISSIMILAR METALS ALSO SEE ETHYLAMINE & AMINOETHANE CLASS 4 USE STAINLESS STEEL TIMING GEARS
MONOMER	15	8			Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
MORPHOLINE 80%/-40%	8	7			Y		0.994	N/A	N/A	N/A	PH >9 IF H2O PRESENT CLASS 8 PREFERRED CLASS 7 FUNCTIONALY OK BUT MAY CONTAMINATE USE TEFLON
MOTOR-OIL--RECLAIMED	14	37			Y	Y	N/A	N/A	N/A	N/A	
MTBE	16	7	8		Y	Y	0.74				USE STAINLESS STEEL GEARS AND FITTINGS EXTREMELY FLAMMABLE !! USE NON-SPARK TOOLS & EQUIPMENT PROCESSED FROM ISOBUTYLENE AND METHANOL FULL NAME: METHYL-TERTIARY-BUTYL-ETHER GASOLINE AND PETROLEUM FUEL ADDITIVE



LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
MURIATIC-ACID	NR						N/A	N/A	N/A	N/A	OBSELETE NAME FOR HYDROCHLORIC ACID NOT RECOMMENDED
N-PROPANOL-ALCOHOL	16	7	8	Y	Y	Y	0.804	N/A	N/A	N/A	*SAME AS N-PROPYL ALCOHOL
NALCO-9843	16										COMBINATION OF ALCOHOLS, ALDEHYDES, AND ESTERS
NAPHTHA	16	7	8	Y	Y	Y	0.885	N/A	N/A	0.0007	ALUMINIUM EXCELLENT CAST IRON GOOD
NAPHTHA-&-XYLENE	16	7	8	Y	Y	Y	0.6	N/A	N/A	0.0007	ALUMINIUM EXCELLENT,CAST IRON GOOD,
NAPHTHA-ACID-(NAPHTHANIC-ACID)	8						N/A	N/A	N/A	N/A	PETROLEUM DERIVATIVE (SUN-ARTIC ACID (B))
NAPHTHA-VM&P	16	7	8		Y	Y	0.6	N/A	N/A	0.0006	ALUMINIUM EXCELLENT,CAST IRON GOOD,
NAPHTHALENE	7	8			Y	Y	1.145	N/A	N/A	N/A	
NAPHTHENIC-ACID	8				Y	Y	N/A	N/A	N/A	N/A	
NATRIUM-CHLORIDE-SOLUTIONS	7	8			Y	Y	2.165	N/A	N/A	N/A	*SODIUM CHLORIDE
NEODOL-25	16	7	8	Y	Y	Y	N/A	N/A	N/A	N/A	TRADE NAME FOR AC2-C15 LINEAR,PRIMARY ALCOHOL
NEOHEXANE	16	7	8	Y	Y	Y	0.657	N/A	N/A	N/A	HIGHLY FLAMMABLE,COMPONENT OF HIGH OCTANE MOTOR AND AVIATION FUELS
NEOPENTYL-GLYCOL	15	8			Y	Y	1.066	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
NEOSOL--BLENDED-(SEE-NOTES)	16	7	8	Y	Y	Y	N/A	N/A	N/A	N/A	MTBK, SOL-B, METHANOL AND ETHYL ACETATE
NICKEL-AMMONIUM-SULFATE	NR						1.92	N/A	N/A	N/A	NOT RECOMMENDED
NICKEL-CHLORIDE-(AQUEOUS)	8				Y	Y	1.35	N/A	N/A	N/A	STAINLESS STEEL GOOD PITTING MAY OCCUR UNDER CERTAIN CONDITIONS
NICKEL-NITRATE	8				Y	Y	2.065	N/A	N/A	N/A	PITTING MAY OCCUR UNDER CERTAIN CONDITIONS
NICKEL-SULFATE-(AQUEOUS)	8				Y	Y	1.2	N/A	N/A	N/A	UP TO 40% CONCENTRATION AND 70 F STAINLESS STEEL EXCELLENT PITTING MAY OCCUR UNDER CERTAIN CONDITIONS
NITRIC-ACID	8				Y	Y	1.5	N/A	N/A	0.0012	
NITRIC-ACID-57%	8				Y	Y	1.5	N/A	N/A	N/A	
NITRIC-ACID-63%	8				Y	Y	1.5	N/A	N/A	N/A	
NITRIC-ACID-69%	8				Y	Y	1.5	N/A	N/A	N/A	PRODUCT MUST BE PURE
NITRIC-ACID-AQUEOUS-10-100%	8				Y	Y	1.5	N/A	N/A	N/A	
NITRIC-ACID-FUMING-(WHITE)	NR						1.5	N/A	N/A	N/A	NOT RECOMMENDED
NITROBENZENE	7	8			Y	Y	1.986	N/A	N/A	N/A	CARBON INSERT BEARING PLATES CAST IRON, ALUMINIUM OR STAINLESS STEEL EXCELLENT
NITROGEN--LIQUID	NR						N/A	N/A	N/A	N/A	NOT RECOMMENDED
NITROGEN-SOLUTION-32%	15			Y	Y	Y	N/A	N/A	N/A	0.0003	
NITROGEN-SOLUTIONS-STRAIGHT	15			Y	Y	Y	N/A	N/A	N/A	0.0003	28% - 30% - 32% AND WATER
NITROPROPANE-1-&-2	NR						1.003	N/A	N/A	0.0005	NOT RECOMMENDED

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
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	160	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 SAPSTAIN CONTROL WOOD TREATMENT CHEMICAL
O,O-DIETHYL-O-(3,5,6)-NOTES	8				Y			N/A	N/A	N/A	N/A	TRICHLORO-2-PYRIDYL, PHOSPHOROTHIOATE IN XYLENE AND KEROSENE SOLVENTS
OCTANOIC-ACID-(CAPRYLIC)	8				Y	Y		0.9105	N/A	N/A	N/A	
OCTANOL	16	7	8		Y	Y		0.83	6.27	45		USE STEEL CASE AND/OR CAST IRON FOR FIRE APPROVAL SAME AS 2-ETHYL HEXANOL
OCTYL-ALCOHOL	16	7	8		Y	Y		0.83	6.27	45		USE STEEL CASE AND/OR CAST IRON FOR FIRE APPROVAL SAME AS 2-ETHYL HEXANOL
OCTYLALANITATE	8				Y			N/A	N/A	N/A	N/A	TRADE NAME: WICHANOL 155
OCTYLPHENOXY-POLYETHOXYETHANOL	15	8		Y	Y	Y		1.06	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS A DETERGENT - METERING WATER, SOYBEAN OIL AND ANIMAL OIL THROUGH SAME METER
OIL-&WATER-MIX-FROM-WELL	27			Y	Y	Y		N/A	N/A	N/A	N/A	
OIL---90-WEIGHT-(SEE-NOTES)	1			Y	Y	Y		0.9	N/A	N/A	N/A	(EQUIVALENT TO SAE 50 WEIGHT)
OIL---DEODORIZED	1	16	7	Y	Y	Y		N/A	N/A	N/A	N/A	
OIL---HEAVY	14	37			Y	Y		N/A	N/A	N/A	N/A	METERING TEMPERATURE 350 DEG F, 100-200 SSU
OIL---HOT	7	8			Y			1.1	N/A	N/A	N/A	KALREZ SEALS 300 TO 650 F, 33 SSU AT 400 DEG F, 39 SSU AT 300 DEG F HEAT EXTENSION
OIL---PETROLEUM-BASE	1	16	7	Y	Y	Y		N/A	150	750	N/A	METERING TEMPERATURE 100 DEG F
OIL-BASE-LIQUID-SEE-NOTES	27				Y	Y		N/A	100	500	N/A	CONTAINS 3% CALCIUM OXIDE AND CALCIUM HYDROXIDE SOLIDS METERING TEMPERATURE 300 DEG F
OIL-DISTILLATE	1			Y	Y	Y		N/A	N/A	N/A	N/A	
OIL-FURNACE	1	14			Y	Y		1.08	3.5	37		
OIL-MOTOR-15W40	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	METERING TEMPERATURE 230 DEG F HEAT EXTENSION
OIL-WELL-CONDENSATE	10				Y	Y		0.663	N/A	N/A	N/A	CARBON BEARING PLATE INSERTS HARD CHROME ROTOR SLEEVES
OLEFIN-SULFIDE	8				Y			1.09	5.5	69.3		OLEFIN ALSO KNOWN AS ALKENE SULFIDE SOLUTIONS ARE ALKALINE (BASIC PH) TRADE NAME SULFRZOL

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
OLEIC-ACID	4	20	8		Y			0.895	N/A	N/A	N/A	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	N/A	PETROLEUM SOLVENT
OLIVE-OIL	3	14	37	8	Y	Y		0.91	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
OMEGA-(SEE-NOTES)	15	8			Y			N/A	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	N/A	
ORANGE-JUICE-60-BRIX	8				Y			1.1	N/A	N/A	N/A	TEFLON BEARING-PLATE INSERTS
ORANGE-JUICE-CONCENTRATE	8				Y	Y		N/A	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	
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	N/A	
OXYGEN-LIQUID-CRYOGENIC	NR							1.14	N/A	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
PAINT--ENAMEL	15	27			Y			N/A	N/A	N/A	N/A	
PAINT--LACQUER	15	27			Y			N/A	N/A	N/A	N/A	
PAINT-LATEX-ACETATE	15	8			Y			0.841	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
PAINT-LATEX-ACRYLIC	15	8			Y	Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
PAINT-LATEX-VINYL	15	8			Y	Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
PAINT-OIL-BASE	15	27			Y			N/A	N/A	N/A	N/A	
PALM-OIL	3	14	37	8	Y	Y		0.952	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
PARAFFIN	14	37			Y	Y		N/A	N/A	N/A	N/A	METERING TEMPERATURE 300 DEG F HEAT EXTENSION
PARAFFIN-LIQUID	14	37			Y	Y		N/A	N/A	N/A	N/A	
PARAFFIN-SOLVENT-BASED	14	37			Y	Y		N/A	N/A	N/A	N/A	METERING TEMPERATURE 285 DEG F
PARAPLEX	14	37			Y	Y		N/A	N/A	N/A	N/A	
PARAPLEX-(BASE-SOYBEAN-OIL)	14	37			Y	Y		N/A	3400	17000	N/A	
PARATHION--INSECTICIDE	30	15	27	8	Y	Y		1.26	N/A	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	N/A	VISC. RANGES FROM 10,000 TO 100,000 SSU
PEANUT-OIL	3	14	37	8	Y	Y		0.92	N/A	N/A	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
PEAR-OIL	16	7	8		Y			0.879	N/A	N/A	N/A	SAME AS AMYL ACETATE
PENNZSUPPRESS_D_CONC	14			Y	Y	Y		1.0254	545	2595		SS ROTOR GEARS RECOMMENDED DUE TO WATER CONTENT SEE WATER-OILY
PENNZSUPPRESS_D_DILUTE	14			Y	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	N/A	WOOD PRESERVATIVE - IF CONTAINS WATER OR OTHER SOLUTION NOT COMPATIBLE WITH ALUMINUM, USE CLASS 7
PENTANE	10			Y	Y	Y		0.626	N/A	N/A	0.0008	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 PRODUCT MUST BE FREE OF WATER
PERCHLOROETHYLENE-&NAPHTHA	7	8			Y	Y		N/A	N/A	N/A	N/A	NIRE SUST BEARING PLATES WITH CARBON BEARING INSERTS ALUMINUM NOT RECOMMENDED, CAST IRON GOOD, STAINLESS STEEL EXCELLENT AT CONCENTRATIONS UP TO 90% AND 70 F.
PERCHLOROETHYLENE-(ANHYDROUS)	7	8			Y	Y		1.625	N/A	N/A	0.0005	NIRE SUST 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	N/A	TRICHLOROETHYLENE CARBON INSERT BEARING PLATES ALUMINUM NOT RECOMMENDED, COULD BE HAZARDOUS
PERCHLOROMETHANE-(ANHYDROUS)	7	8			Y	Y		1.585	N/A	N/A	0.0007	SEE CARBON TETRACHLORIDE
PEROXIDE	8				Y			N/A	N/A	N/A	N/A	
PETROLEUM-DISTILLATES	16	7	8	Y	Y	Y		0.885			0.0007	RUBBER SOLVENT-LIKE NAPHTHA
PETROLEUM-ETHER	16	7	8	Y	Y	Y		0.6	N/A	N/A	N/A	SAME AS PETROLEUM NAPHTHA OR NAPHTHA REF. OLD NAMES VARNOLINE AND WHITE SPIRIT
PETROLEUM-SPIRITS	16	7	8	Y	Y	Y		0.6	N/A	N/A	N/A	SAME AS NAPHTHA EXCEPT IN GREAT BRITAIN GB = VOLATILE HYDROCARBON MIX FLASH POINT 32 DEG. F
PHENOL	15	27	8		Y	Y	Y	1.07	N/A	N/A	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	N/A	N/A	*MAXIMUM 80% SOLUTION GYLON SEALS OK (GASKET)
PHENOL-FORMALDEHYDE-RESINS	15	8			Y			N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
PHENOL-PROPYLPRYDENE	7	8			Y			N/A	N/A	N/A	0.0011	
PHENYL-CHLORIDE	7	8			Y	Y		1.105	N/A	N/A	N/A	SAME AS CHLOROBENZENE

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
PHENYLAMINE	8	47			Y			1.022	4	38	N/A	** SEE ANLINE INFORMATION **
PHENYLETHANE	16	7	8		Y	Y		0.867	N/A	N/A	N/A	SAME AS ETHYLBENZENE
PHENYLETHYLENE	16	7	8		Y			0.904	N/A	N/A	N/A	SAME AS STYRENE
PHENYLMETHANE	16	7	8		Y	Y		0.866	N/A	N/A	0.0006	SAME AS TOLUENE
PHENYLMETHANOL	16	7	8		Y	Y		1.04	N/A	N/A	N/A	SAME AS BENZYLALCOHOL
PHOSPHORIC-ACID	8			N	Y	Y		1.2				SYNONYMS: TRIPHENYL PHOSPHITE (TPP), PHOSPHOROUS ACID, TRIPHENYL ESTER
PHOSPHORIC-ACID-60%,-WATER-40%	8				Y			1.834	N/A	N/A	N/A	DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHORIC-ACID-75%	8				Y			1.83	N/A	N/A	N/A	DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHORIC-ACID-80-85%	8				Y			1.83	N/A	N/A	N/A	DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHORIC-ACID-99%	8				Y			1.834	N/A	N/A	N/A	DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHORIC-ACID-MAXIMUM-85%	8				Y			1.834	N/A	N/A	N/A	200 DEGREES F DO NOT USE HARD CHROME PLATED ROTOR SLEEVES USE SS316 NON-PLATED SLEEVES ONLY
PHOSPHOROUS-CHLORIDE	NR							1.574	N/A	N/A	N/A	SAME AS PHOSPHOROUS TRICHLORIDE NOT RECOMMENDED
PHOSPHOROUS-TRICHLORIDE	NR							1.574	N/A	N/A	N/A	NOT RECOMMENDED
PHTHALIC-ACID	4	8			Y	Y		1.585	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
PHTHALIC-ANHYDRIDE	14	8			Y	Y		1.527	N/A	N/A	N/A	
PIMELIC-KETONE-(CYCLOHEXANONE)	16	7	8		Y			0.948	N/A	N/A	N/A	ALUMINUM, CAST IRON & STAINLESS STEEL ARE ONLY RATED GOOD
PINE-OIL	15		8		Y	Y		0.94	N/A	N/A	N/A	
PINE-OIL--FULL-CONCENTRATE	15		8		Y	Y		0.94	N/A	N/A	N/A	
PINEAPPLE-JUICE	8				Y	Y		N/A	N/A	N/A	N/A	
PITCH	1	14			Y	Y		N/A	N/A	N/A	N/A	CLASS 14 IF TEMPERATURE ABOVE 140 DEG.F
PITCH-(70%PENETRATION-ASPHALT)	1	14			Y	Y		N/A	N/A	N/A	N/A	
PLASTICIZER-BLEND	1	14	37		Y			1.12	N/A	N/A	N/A	500 TO 5000 SSU
PLASTICIZER-OIL	1	14	37		Y			1.12	50	250	N/A	
PLASTICRETE-161	8	27			Y	Y						CONCRETE ADDITIVE PH=10, ALUMINUM NOT RECOMMENDED USE CAST IRON ONLY IF NOT WATER FLUSHED
PLASTISOL	15	8			Y			N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLY-N-FERTILIZER	0							1.46	N/A	N/A	N/A	
POLYAMIDE-RESINS	15	8			Y	Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYAMINE-SOLUTION	8				Y			1.09	N/A	N/A	N/A	VISCOSITY 3880 SSU TO 6100 SSU

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
POLYBUTENE	15	8			Y		0.87	165000	750000		CL 8 USE TEFLON INSERT BEARINGS SAME AS POLYBUTYLENE AND POLYISOBUTENE DERATE METER PER VISC/PRESSURE LOSS
POLYBUTYLENE	15	8			Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYESTER-RESIN	15	8		Y	Y		N/A	30000	150000	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYESTER-RESIN-CX403	15	8		Y	Y		N/A	15000	70000	N/A	CLASS 8 USE TEFLON INSERT BEARINGS PREEMULSIFIED BINDER
POLYESTER-RESIN-RESILIENT	15	8		Y	Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS NO AIR ELIMINATOR
POLYESTER-RESIN-W/STYRENE	15	8		Y	Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYESTER-SURFACE-COATING	15	8		Y	Y		N/A	20000	92500	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POLYETHER-ALCOHOL	16	7	8		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	
POLYOL	14	37			Y	Y	1.1	N/A	N/A	N/A	PRESSURE LOSS VS VISCOSITY WILL DETERMINE METER SIZE 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	
POLYPHOSPHORIC-ACID	8				Y		N/A	N/A	N/A	N/A	SAME AS SUPERPHOSPHORIC ACID
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	Y	N/A	N/A	N/A	N/A	SELECT CLASS 1 FOR WEIGHTS & MEASURES APPLICATIONS
POLYPROPYLENE-GLYCOL-TYPE-4	14	37		Y	Y	Y	1.004	930	4400		SHEAR SENSITIVE LIQUID DERATE METER BY 1/3 MAX. CAPACITY
POLYPROPYLENE-OXIDE	16	7	8		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 VISC. RANGES FROM 5,000 TO 50,000 SSU
POLYVINYL-ALCOHOL	15	8			Y		1.31	N/A	N/A	N/A	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 VISC. CAN RANGE FROM 2000 TO 20000
POLYVIS	1	14	37		Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
POTABLE-SPIRIT-99-%	8			Y	Y	Y	N/A	N/A	N/A	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
POTASH-AQUEOUS	27			Y	Y	Y		2.428	N/A	N/A	N/A	SAME AS POTASSIUM CARBONATE
POTASSIUM-ACETATE	7	8			Y			1.57				DERIVATIVE OF ACETIC ACID CARBON BEARING PLATE INSERTS CAST IRON EXCELLENT AT 100% CONC. TO 200 F STAINLESS STEEL GOOD AT ALL CONC. TO 200 F CAST IRON NOT GOOD BELOW 100% CONC.
POTASSIUM-BROMIDE-(AQUEOUS)	NR							2.749	N/A	N/A	N/A	NOT RECOMMENDED
POTASSIUM-CARBONATE	7	20	8	Y	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
POTASSIUM-HYDROXIDE	37	7	8	Y	Y	Y		1.516	N/A	N/A	N/A	50% (SG=1.516) 20% (SG=1.190) 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	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 CLASS 08 GOOD BELOW 130 F SG = 1.516 FOR 50% SOLTN
POTASSIUM-HYDROXIDE-45%	37	7	8	Y	Y	Y		1.457	N/A	N/A	N/A	CAST IRON GOOD, STAINLESS STEEL EXCELLENT AVOID DISSIMILAR METALS CLASS 07 & 37 GOOD BELOW 100 F .08 GOOD BELOW 130 F
POTASSIUM-HYDROCHLORITE	NR							N/A	N/A	N/A	N/A	NOT RECOMMENDED
POTASSIUM-NITRATE-(AQUEOUS)	16	7	8	Y	Y	Y		2.109	N/A	N/A	N/A	ALUMINIUM 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-PHOSPHATE-DIBASIC	7	8			Y	Y		N/A	N/A	N/A	N/A	
POTASSIUM-POLYPHOSPHATE-39%	7	8			Y	Y		2.564	N/A	N/A	N/A	
POTASSIUM-SILICATE-100%	7	8			Y	Y		N/A	N/A	N/A	N/A	
PRESS-CLEANING-SOLVENT-NOTES	7	8			Y	Y		N/A	N/A	N/A	N/A	CONTAINS: 5% XYLENE, 78% VMP NAPHTHA, 17% METHYLENE CHLORIDE TEFLON SEALS CARBON BEARING PLATE INSERTS
PRINCEP--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 & M-15 USE CLASS 15 M-7 MAX. 60 GPM.....M-15 MAX. 90 GPM CLASS 8 USE TEFLON INSERTS BEARINGS
PRINTING-INK	1				Y	Y		N/A	N/A	N/A	N/A	SEE INK - PRINTING ALSO INK - ROTOGRAVURE
PRIST-HI-FLASH	16				Y	Y		1.023				PH 7-8, IN THE GLYCOL ETHER FAMILY ANTI-AGING AVIATION FUEL ADDITIVE
PROPANE-LPG--LIQUID	10			Y	Y	N		0.5077	0.106	25	0.0017	PROPERTIES VARY WITH LPG MIXTURE RATIOS AND CONDITIONS.
PROPANOL	16	7	8	Y	Y	Y		0.804	N/A	N/A	0.00098	SAME AS PROPYL ALCOHOL

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
PROPANONE-(ANHYDROUS)	16	7	8		Y			N/A	N/A	N/A	SAME AS ACETONE
PROPENE	10				Y	Y	0.513				SEE PROPYLENE
PROPENYL-ALCOHOL	16	7	8	Y	Y	Y	0.852	N/A	N/A	N/A	SAME AS ALLYL-ALCOHOL
PROPIONE	16	7	8		Y		0.816	N/A	N/A	N/A	SAME AS DIETHYL KETONE
PROPIONIC-ACID	8	27	15		Y	Y	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		Y		0.887	N/A	N/A	0.0007	ALUMINUM EXCELLENT AIR ELIM. USE KALREZ/ARMALON SEALS
PROPYL-ALCOHOL	16	7	8	Y	Y	Y	0.804	N/A	N/A	0.00098	SAME AS PROPANOL
PROPYLENE	10				Y	Y	0.513	N/A	N/A	N/A	COMPRESSED GAS ... TREAT SAME AS LPG EXCEPT VITON SEALS ... HIGHLY FLAMMABLE DANGEROUS FIRE RISK ... ASPHYXIANT GAS *** MUST CONSULT FACTORY *** CANNOT USE BUNA MATERIALS SIMILAR TO PROPENE
PROPYLENE-DICHLORIDE	7	8			Y	Y	1.1583	N/A	N/A	0.0011	.00113 @ 20 DEGREE C .00115 @ 55 DEGREE C
PROPYLENE-GLYCOL	1	16	7	Y	Y	Y	1.038	60	300	0.0004	
PROPYLENE-OXIDE	8				Y		0.8304	N/A	N/A	0.0015	
PROSOL-10%-OIL, 90%-WATER	15	8			Y	Y	N/A	N/A	N/A	N/A	CAN NOT GUARANTEE METER
PROSYL	15	8		Y	Y	Y	N/A	N/A	N/A	N/A	PRODUCT CONSISTS OF: 15% ANHYDROUS AMMONIA, 3% MINERAL SALT, 69% MOLASSES, 13% NITROGEN CLASS 8 USE TEFLON INSERT BEARINGS
PROWL--HERBICIDE	30	15	27		Y	Y	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				Y		1.066				CHLORINE FREE REFRIGERANT R-410A REPLACES R-22 RESIDENTIAL REFRIGERANT ALSO KNOWN AS DUPONT SUVA 9100
PVA-WATER-BASE-RESIN	15	8		Y	Y	Y	1.31	3500	16500	N/A	ABBREVIATION FOR POLYVINYL ALCOHOL CLASS 8 USE TEFLON INSERT BEARINGS
PYRIDINE	16	20	8	N	Y	N	0.98				AROMATIC SOLVENT. BEHAVES AS AN AMINE. FORMULA: C5H5N OTHER NAMES: AZINE OR AZABENZENE
RAFFINATE	16	7	8	Y	Y	Y					RAFFINATE REFERS TO A RESIDUAL COMPONENT LEFT OVER FROM A SOLVENT EXTRACT PROCESS. SPECIFIC CHEMICAL DATA UNKNOWN.
RAPESEED-OIL	1	16	7	Y	Y	Y	0.916	120	600	N/A	ALSO CALLED COLZA OIL



LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
RED-OIL	15	8			Y			0.895	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
REFINERS-SYRUP-(SEE-NOTES)	3	14	37	8	Y	Y		N/A	N/A	N/A	N/A	CONSISTS OF: CARAMEL COLORING, HONEY, MOLASSES, FLAV-O-RICH CLASS 8 USE TEFLON INSERT BEARINGS
REFRIGERANT-152a	10				Y	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	N/A	
RESIDUAL-OIL-(ASPHALT)	14	37			Y	Y		0.94	58	290	N/A	
RESIN-(CAUSTIC-PH)	37	27	8		Y	Y		N/A	N/A	N/A	0.0007	
RESIN-(DOW-ECI-77)	8				Y			N/A	N/A	N/A	N/A	
RESIN-(NEUTRAL-PH)	14	15	8		Y			N/A	N/A	N/A	N/A	
RESIN-(WATER-BASE)	15	8			Y	Y		1.298	776	3880	N/A	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	N/A	VISCOSITY & PERCENT OF XYLENE WILL DETERMINE MAXIMUM FLOW RATE FOR METER SIZE SELECTED
RICE-BRAN-OIL	3	14	37	8	Y	Y		0.916	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
RICINOLEIC-ACID	16	7	8		Y			0.94	N/A	N/A	N/A	SAME AS CASTOR OIL ACID
RICUN-OIL	1	16	7		Y	Y		0.969	N/A	N/A	N/A	
ROOFING-TAR	14	37			Y	Y		N/A	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 HARDCHROME RECOMMEND NON-PLATED SS316 ROTOR SLEEVES CLASS 8 USE TEFLON INSERT BEARINGS
ROSIN	8	4			Y	Y						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
ROSINS-(WOOD,-GUM-&OIL)	37	27	8		Y	Y		1.1	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS SEE TALL OIL
ROUNDUP-(HERBICIDE)	30	15	27	8	Y	Y		1.01	1	31	N/A	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
RUBBER-BASE-W/44%-HEXANE	15	8			Y	Y		N/A	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	NOTES
				BUNA	PTFE	VITON					
RUBBER-CEMENT	15	8			Y		0.8	N/A	N/A	0.0007	CLASS 8 USE TEFLON INSERT BEARINGS
RUBBER-SOLVENT	16	7	8		Y		N/A	N/A	N/A	0.0007	
SALICYLIC-ACID-SOLUTION	8				Y	Y	1.48	N/A	N/A	N/A	
SALT-SOLUTION-30%	7	8			Y	Y	N/A	N/A	N/A	N/A	METER MUST BE KEPT FULL TO AVOID OXIDATION OF THE CAST IRON
SANTICIZER-160	16	7	8		Y		1.12			0.00069	GENERAL PURPOSE PLASTICIZER BUTYL BENZYL PHTHALATE VISC. RANGE 35 TO 1150 SSU (212 F TO 32 F)
SASCOL-105	7	8			Y	Y	1.03	16.72	85		MINING CHEMICAL - FLOTATION REAGENT CONSIDERED A CORROSIVE CHEMICAL
SEA-WATER-&LIGHT-CRUDE-OIL	14	37			Y	Y	N/A	N/A	N/A	N/A	BOTH LIQUIDS THROUGH SAME METER NOT MIXED
SEVIMOL-4	8				Y		N/A	N/A	N/A	N/A	
SF-BUS-WASH-2	8				Y		1.064				USE NON-PLATED SS316 ROTOR SLEEVES STRONG SOLUTION 60% WATER, 40% CLEANERS WEAK SOLUTION 85% WATER, 15% CLEANERS
SHAMPOO-(DI-WATER-BASE)	15	27	8	Y	Y	Y	N/A	N/A	N/A	N/A	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
SHELL-SOL-(SEE-NOTES)	2			Y	Y	Y	N/A	N/A	N/A	N/A	HIGHLY REFINED KEROSENE
SHELLACOL	16	7	8		Y	Y	N/A	N/A	N/A	N/A	
SILICONE-FLUIDS	7	8	15		Y	Y	N/A	N/A	N/A	N/A	ALUMINUM OR CAST IRON GOOD, STAINLESS STEEL
SILICONE-OIL	14	37		Y	Y	Y	0.95	N/A	N/A	N/A	ALUMINUM AND CAST IRON GOOD, STAINLESS STEEL EXCELLENT
SILICONE-OIL-(SEE-NOTES)	1	16	7	Y	Y	Y	0.95	32	160	N/A	USED FOR BRAKE FLUID
SILICONE-RESIN	15	27	8	Y	Y		N/A	1040	5200	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
SILVER-BROMIDE	NR						6.473	N/A	N/A	N/A	NOT RECOMMENDED
SILVER-NITRATE	8				Y	Y	4.328	N/A	N/A	N/A	STAINLESS STEEL EXCELLENT UP TO 90% CONCENTRATION
SOAP-SOLUTION	8				Y	Y	N/A	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	N/A	OR POTASSIUM OLEATES PH14 CAST IRON NOT RECOMMENDED
SODA-ASH-SOLUTION	7	8			Y	Y	1.55	N/A	N/A	N/A	SODIUM CARBONATE
SODIUM-BICARBONATE-50%-CONC.	7	8		Y	Y	Y	1.013	N/A	N/A	N/A	
SODIUM-BICHROMATE	4	8			Y		2.52	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS SAME AS: SODIUM DICHROMATE TOXIC MATERIAL, MAGNETIC DRIVE RECOMMENDED
SODIUM-BROMIDE-NABR.2H2O	8				Y		2.18	N/A	N/A	N/A	
SODIUM-CARBONATE	7	20	8	Y	Y	Y	1.146	N/A	N/A	N/A	
SODIUM-CARBONATE-20%-CONC.	7	8		Y	Y	Y	1.146	N/A	N/A	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
SODIUM-CHLORIDE-(AQUEOUS)	7	8		Y	Y	Y		2.165	N/A	N/A	0.0002	CAST IRON GOOD AT UP TO 30% CONCENTRATION AND 70 F. STAINLESS STEEL EXCELLENT
SODIUM-CHLORIDE-&WATER-NOTES	8			Y	Y	Y		N/A	N/A	N/A	N/A	31% SODIUM CHLORIDE AND 69% WATER
SODIUM-DICHROMATE	4	8			Y			2.52	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS TOXIC MATERIAL,MAGNETIC DRIVE RECOMMENDED
SODIUM-FERRICYANIDE	8				Y			1.458	N/A	N/A	N/A	
SODIUM-FORMATE	NR							1.919	N/A	N/A	N/A	NOT RECOMMENDED
SODIUM-HYDROSULFIDE	8				Y			1.1	N/A	N/A	N/A	1.1 SPECIFIC GRAVITY AT 80 DEGREES F
SODIUM-HYDROXIDE	7	8	27	37	Y	Y		1.525	N/A	N/A	N/A	(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 DISIMILAR METALS NON WEIGHTS & MEASURES APPLICATIONS USE CLASS 27 OR 37 SG 50%=1.525 20%=1.219 @ 70 F
SODIUM-HYDROXIDE-50%	7	8	27	37	Y	Y		1.525	N/A	N/A	0.0001	(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 DISIMILAR METALS NON WTS. & MEAS. APPL. USE CLASS 27 OR 37
SODIUM-HYPOCHLORITE-(AQUEOUS)	NR				Y			1.1	N/A	N/A	N/A	NOT RECOMMENDED STRONG BLEACHING/DISINFECTING AGENT TANTALUM IS MOST SUITABLE METAL PH TYPICALLY ABOVE 10
SODIUM-LAURYL-SULFATE	8				Y			N/A	15000	69000	N/A	TEFLON BEARING PLATE INSERTS
SODIUM-MERCAPTOMENZOTHIZOLE	4	8			Y			N/A	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS SAME AS: SODIUM MBT
SODIUM-METHYLATE	8				Y			N/A	N/A	N/A	N/A	TOXIC, TEMPERATURE LIMITS, CONCENTRATION LIMITS, SPECIAL SEALS
SODIUM-NAPHTHALENESULFONATE	7	8			Y			N/A	N/A	N/A	N/A	USE:ORGANIC SYNTHESIS,LIQUEFYING AGENT IN ANIMAL GLUE PREPARATIONS,NAPHTHOLS.
SODIUM-NITRATE-(AQUEOUS)	16	7	8		Y	Y		1.36	N/A	N/A	N/A	UP TO 90% SOLUTION AT AMBIENT TEMP.
SODIUM-NITRITE	15				Y	Y		2.168				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 ALUMINUM EXCELLENT TO 40% SOLUTION TO 200 F
SODIUM-PHOSPHATE-TRIBASIC	7	8			Y	Y		1.62	N/A	N/A	N/A	STAINLESS STEEL GOOD
SODIUM-SILICATE	16	7	20	8	Y	Y		1.56	N/A	N/A	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
SODIUM-SULFATE-50-80%-WITH	20	8			Y	Y		2.671	N/A	N/A	N/A	50-20% WATER CLASS 20 USE STAINLESS STEEL TIMING GEARS
SODIUM-SULFATE-DECAHYDRATE	7	8			Y			1.047	N/A	N/A	N/A	
SODIUM-SULFIDE-AQUEOUS	8				Y	Y		1.427	N/A	N/A	N/A	AVOID DISIMILAR METALS *NA2S.9H2O

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
SODIUM-THIOSULFATE-(AQUEOUS)	15	8		Y	Y	Y	1.232	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
SODIUM-XYLENESULFONATE	8				Y		N/A	N/A	N/A	N/A	
SORBITOL-WITH-30%-WATER	4	8		Y	Y		N/A	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
SOY-LECITHIN	8				Y		N/A	4000	20000	N/A	NOT A SANITARY METER
SOYA-OIL	3	14	37	8	Y	Y	0.91	36	190	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
SOYBEAN-OIL	3	14	37	8	Y	Y	0.924	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
SOYBEAN-OIL-&MILD-HERBICIDE	30	15	27	8	Y	Y	0.929	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS 90% SOYBEAN OIL, 10% MILD HERBICIDE
SOYBEAN-OIL-80%-&20%-ACID	30	15	27	8	Y	Y	0.929	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
STAINMASTER	8				Y		N/A	N/A	N/A	N/A	
STANNIC-CHLORIDE-(AQUEOUS)	NR						1.21	N/A	N/A	N/A	NOT RECOMMENDED
STARCH--LIQUID	15	8		Y	Y		1.5	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS VARIES FROM A FEW HUNDRED SSU TO AT LEAST 100,000 SSU.
STARCH-COOKED	15	8		Y	Y		N/A	N/A	N/A	N/A	MUST NOT CONTAIN CHLORIDE CLASS 8 USE TEFLON INSERT BEARINGS
STARCH-SLURRY-15%-SOLIDS	15	8		Y	Y		N/A	N/A	N/A	N/A	PRODUCT MUST NOT CONTAIN CHLORIDES CLASS 8 USE TEFLON INSERT BEARINGS
STEAM-CONDENSATE	NR				Y	Y	N/A	N/A	N/A	N/A	
STEARIC-ACID	15	8			Y	Y	0.839	N/A	N/A	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS PRODUCT MUST BE COMPLETELY ANHYDROUS ALUMINUM FAIR TO POOR, STAINLESS STEEL EXCELLENT
STEARIC-ACID-&MYRISTIC-ACID	15	8			Y	Y	0.839	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
STODDARD-SOLVENT	16	7	8	Y	Y	Y	0.78	1.25	32	0.0006	PETROLEUM SOLVENT NEUTRAL pH VALUE
STYRENE	16	7	8		Y		0.904	N/A	N/A	0.0005	
STYRENE--BUTADIENE	37				Y		N/A	N/A	N/A	N/A	
STYRENE-MONOMER	16	7	8		Y		0.904	N/A	N/A	0.0005	
SUCROSE-(SUGAR)	3	14	37	8	Y	Y	1.5877	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
SUGAR	3	14	37	8	Y	Y	1.5877	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
SULFONIC-ACID	7	8			Y		N/A	N/A	N/A	N/A	
SULFUR--LIQUIFIED	27	47	8		Y	Y	1.8	N/A	N/A	N/A	HEAT EXTENSION METER SHOULD ALWAYS BE HEAT TRACED METER CAN NOT BE USED IF PRODUCT OVER 400 DEG F PH 4.5-11 CAST IRON OTHERWISE S.S. W/TEF. INSERTS
SULFUR-DIOXIDE-100%	8						1.4	N/A	N/A	N/A	
SULFUR-MOLTEN	27	47	8		Y	Y	2	12	60	N/A	HEAT EXTENSION METER SHOULD ALWAYS BE HEAT TRACED PH 4.5-11 CAST IRON OTHERWISE S.S. W/TEF. INSERTS

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
SULFURIC-ACID	8				Y	Y		1.84	N/A	N/A	N/A	0-10% MAXIMUM 120 DEGREES F USE CLASS 8 11-84% - NO APPLICATION 85-100% MAXIMUM 100 DEGREES F USE CLASS 8
SULFURIC-ACID--FUMING	8				Y			N/A	N/A	N/A	N/A	REACTS VIOLENTLY WITH WATER
SULFURIC-ACID-93%-(BAUME-66)	8				Y	Y		1.84	N/A	N/A	N/A	CARBON BEARING PLATE INSERTS
SULFURIC-ACID-98%-CONC.	8				Y			1.84	N/A	N/A	N/A	
SULFUROUS-ACID	8				Y	Y		1.03	N/A	N/A	N/A	ALUMINUM OR STAINLESS STEEL GOOD,
SULPHITE-LIQUOR	8				Y	Y		1.3	106	530	N/A	
SUNTHENE	1	14	37		Y	Y		N/A	N/A	N/A	N/A	TRADEMARK FOR A SERIES OF NONSTAINING NAPHTHENIC OILS, USED AS PLASTICIZERS, SOFTENERS, AND EXTENDERS.
SUP-R-LIX-THIXOTROPIC	37	47			Y	Y		N/A	390	1950	N/A	LIQUID FEED SUPPLEMENT...PLUG BLEED HOLES AND FILL COVERS WITH EDIBLE GREASE RALSTON PURINA TRADE NAME .. PRODUCT IS ABRASIVE LIMITED SERVICE LIFE
SUPERPHOSPHORIC-ACID	8				Y	Y		N/A	N/A	N/A	N/A	SAME AS POLYPHOSPHORIC ACID MAXIMUM 85%, 200 DEGREES F
SUPERSEAL-30	14	37	47	16	Y	Y		0.87				ASPHALT SEALER PRODUCT. CONTAINS AROMATIC 100 VISCOSITY OF AROMATIC 100 IS RELATIVELY LOW CLASS 16 OPTIONAL. WITH LOW VISCOSITY AND NO ABRASIVES
SURFACTANT	7	8			Y			N/A	N/A	N/A	N/A	THERE ARE THREE CATEGORIES OF SURFACE ACTIVE AGENTS: DETERGENTS, WETTING AGENTS AND EMULSIFIERS. CL 8 USE NON-PLATED SS316 SLEEVES
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	MEASURING AMMONIUM XYLENE, GLYCOL-SOLVENTS, XYLENE SURFACTANTS ETHOXILATED ALCOHOL THROUGH SAME METER CL 8 USE NON-PLATED SS316 SLEEVES
SUTAN---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 & M-15 USE CLASS 15 M-7 MAX 60 GPM ... M-15 MAX 90 GPM CLASS 8 USE TEFLON INSERT BEARINGS
SUTAZINE---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 & M-15 USE CLASS 15 M-7 MAX 60 GPM ... M-15 MAX 90 GPM CLASS 8 USE TEFLON INSERT BEARINGS
SUVA-9100	10				Y			1.066				CHLORINE FREE REFRIGERANT R410A SAME AS PURON AND REPLACES R-22
SWEET-&SOUR-CRUDE-RESIDUAL	14	37			Y	Y		N/A	N/A	N/A	N/A	METERING TEMPERATURE 405 DEG F HEAT EXTENSION
SYRUP	3	14	37	8	Y	Y		N/A	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	NOTES
				BUNA	PTFE	VITON	OTHER					
TALL-OIL-LIQUID-ROSIN	37	27	8	Y	Y	Y		0.975	N/A	N/A	N/A	SUGGEST CHECKING WITH CUSTOMER TO MAKE SURE MATERIALS OF CONSTRUCTION SELECTED ARE IN KEEPING WITH MATERIALS IN THE REST OF SYSTEM CLASS 8 USE TEFLON INSERT BEARINGS ...PRODUCT MAY BE HEATED VISCOSITY FROM 1,000 SSU TO 25,000SSU
TALLOW---BEEF	3	14	37	8	Y	Y		0.86	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
TALLOW---LIQUID-FAT	3	14	37	8	Y	Y		0.86	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
TALLOW-AND-VEGETABLE-OIL	3	14	37	8	Y	Y		0.86	100	500	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
TAMOL-850	8				Y	Y		N/A	248	1240	N/A	FLAT GASKETS MUST BE TEFLON
TAR-FUEL-OIL	1	14	37		Y	Y		N/A	30	150	N/A	VISCOSITY & TEMPERATURE WILL DETERMINE METER CLASS
TAR-OIL---NAPHTHA-&PHENOL	7	8			Y	Y		0.862	N/A	N/A	N/A	
TAR-STEAM-CRACKED	14	37			Y	Y		1.06	1300	6100	0.00063	
TDI-(TOLUENE-DIISOCYANATE)	7	8			Y	Y		1.22	N/A	N/A	0.0005	
TECSOL-#3-95%	16	7	8		Y	Y		N/A	N/A	N/A	N/A	ETHYL ALCOHOL
TELONE-II	7	8			Y	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	Y		N/A	N/A	N/A	N/A	
TETRACHLOROETHYLENE-ANHYDROUS	7	8			Y	Y		1.625	N/A	N/A	N/A	SAME AS PERCHLOROETHYLENE
TETRAETHYL LEAD-4PB	16	7	8		Y	Y		1.6	N/A	N/A	N/A	PRODUCT MUST BE WATER FREE
TETRAHYDROFURAN	7	8			Y	Y		0.89	1	5	N/A	
TETRAPOTASSIUM-PYROPHOSPHATE	8				Y	Y		1.74	42	210	N/A	
TEXANOL	16				Y	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 MEMBER OF THE "ALIPHATIC SOLVENTS" FAMILY.
THERMEX-8244	1	14	37		Y	Y		N/A	N/A	N/A	N/A	HEAVY DUTY, HIGH TEMPERATURE LUBRICANT
THIOGLYCOLIC-ACID	8				Y	Y		1.325	N/A	N/A	N/A	
THIOL	16	8		Y	Y	Y		0.85	3	36		THIOL PREVIOUSLY KNOWN AS MERCAPTAN
THIOSOL	15	8			Y	Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
THIOSULFATE-(SEE-NOTES)	8				Y	Y		N/A	N/A	N/A	N/A	12% NITROGEN & 26% SULPHUR WITH LIQUID ZINC
TITANIUM-DIOXIDE	NR				Y	Y		3.8	N/A	N/A	N/A	TiO2 SLURRY ... EXTREMELY ABRASIVE USED IN PAINTS & COATINGS
TITANIUM-TETRACHLORIDE	NR							1.7609	N/A	N/A	N/A	NOT RECOMMENDED
TOLUENE	16	7	20	8	Y	Y		0.866	1	5	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS
TOLUENE--XYLENE--BENZENE	16	7	8		Y	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	NOTES
				BUNA	PTFE	VITON					
TOLUENE-DIISOCYANATE	8				Y	Y	1.22	N/A	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.
TOLUENE-MIX--SEE NOTES	16	7	8		Y		1.8	N/A	N/A	N/A	50% TOLUENE AND 50% LACOLENE
TOLUENE/OIL-BASE-PAINT	15	27	8		Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
TOLUOL	16	7	20	8	Y		0.866	N/A	N/A	0.0006	CLASS 20 USE STAINLESS STEEL TIMING GEARS OBSOLETE NAME FOR TOLUENE
TOMATO-PUREE	8				Y		N/A	N/A	N/A	N/A	
TOMATOE-PASTE	8				Y		N/A	N/A	N/A	N/A	
TORDON-2686	4	8			Y		N/A	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	N/A	
TRANSFORMER-OIL	1	16	7		Y	Y	N/A	N/A	N/A	0.0004	
TRANSMISSION-FLUID	1	16	7		Y	Y	0.87	34	185		TRADE NAMES DEXRON AND MERCON ALSO REFERENCE ATF
TREFLAN--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 & M-15 USE CLASS 15 M-7 MAX 60 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	N/A	CARBON BEARING PLATE INSERTS NOT RECOMMENDED
TRICHLOROACETIC-ACID	NR						1.62	N/A	N/A	N/A	
TRICHLOROBENZENE-1,2,4	7	8			Y		1.463	N/A	N/A	N/A	
TRICHLOROETHANE	7	8			Y	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	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	N/A	CARBON BEARING PLATE INSERTS
TRICHLOROETHYLENE-MIX	7	8			Y		N/A	N/A	N/A	N/A	CONSISTS OF: 70% TRICHLOROETHYLENE, 15% CREOSOL AND 15% DIETHANOLINE TEFLON SEALS
TRICRESYL-PHOSPHATE-SEE-NOTES	7	8			Y		1.162	N/A	N/A	N/A	TRADE NAME: KRONITEX
TRIDECYL-ALCOHOL	16	7	8		Y		0.845	N/A	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	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS				RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
					BUNA	PTFE	VITON	OTHER					
TRIETHYLENE-GLYCOL	1	16	7		Y	Y	Y		1.12	100	500	0.0004	
TRIMETHYLAMINE-(AQUEOUS)	7	8			Y	Y			0.662	N/A	N/A	N/A	
TRIMETHYLPENTANE	10				Y	Y	Y		0.692	N/A	N/A	N/A	SAME AS ISOOCTANE
TRIMETHYLPHENOL	8					Y			N/A	N/A	N/A	N/A	
TRIPHENYL-PHOSPHITE	8				N	Y	Y		1.2				SYNONYMS: PHOSPHOROUS ACID, TRIPHENYL ESTER, TPP, PHOSPHORIC ACID
TRISODIUM-NTA	8				Y				1.3				CL 8 USE TEFLON SEALS AND TEFLON INSERT BEARINGS SAME AS TRISODIUM NITRILTRIACETATE
TRISODIUM-PHOSPHATE	7	8			Y	Y	Y		1.62	N/A	N/A	N/A	SAME AS: SODIUM PHOSPHATE TRIBASIC
TRITON-X-100	1	16	7		Y	Y			N/A	N/A	N/A	N/A	
TUNG-OIL	1	16	7		Y	Y	Y		0.936	N/A	N/A	N/A	
TURPENTINE	16	7	20	8	Y	Y	Y		0.87	1	5	N/A	CLASS 20 USE STAINLESS STEEL TIMING GEARS
TWEEN-20	7	8			Y				1.08				ALSO CALLED POLYSORBATE 20 USED AS SURFACTANT AND SPREADING AGENT FOR PHOTO PRINT MAKING
UNDECYLENIC-ACID-(SEE-NOTES)	8				Y				0.913	N/A	N/A	N/A	USED IN MAKING FOOT POWDERS, SOLIDIFIES AT AMBIENT TEMPERATURES HOT OIL JACKET (STEAM TRACE)
URANINE-AQUEOUS-SOLUTION-20%	0								N/A	N/A	N/A	N/A	
UREA	30	15	27	8	Y	Y	Y		1.335	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
UREA-25%-WITH-75%-ORGANIC-DYE	30	15	27	8	Y	Y	Y		1.335	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS WATER SOLUTION
UREA-FORMALDEHYDE-RESIN-ALKYLA	8				N	Y	Y		1.01	2			CYMEL U-662 PRODUCED BY CYTEC ALKYLATED UREA FORMALDEHYDE RESIN DYNAMIC VISCOSITY: 20 POISE @ 25 C STAINLESS STEEL 304 OR 316 KALRES ALSO RECOMMENDED BUNA SEALS WILL SHOW SOFTENING DUE TO THE AMINO RESINS VITON EXCELLENT WITH ISOBUTANOL BUT UP TO 75 F CYMEL U-662 CONTAINS 26% OF ISOBUTANOL
UREA-WITH-SOLIDS-(SEE-NOTES)	27	8			Y				1.335	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS CONTAINS: DIAMMONIUM PHOSPHATE 50, POTASSIUM CHLORIDE 20, 6% OF 98.5 STRENGTH SULPHURIC ACID, 10% UREA, 14% WATER PH 5 TO 6 TEFLON SEALS
VACUUM-GAS-OIL	1	16	7		Y	Y	Y		0.88	73.2	366	0.0004	EXPANSION COEFF. ESTIMATED FROM SIMILAR LUBE OILS
VAPAM-HL	30	15	27	8	Y	Y	Y		N/A				USED AS A VACUUM PUMP LUBE OIL CL 8 USE TEFLON INSERT BEARINGS SODIUM METHYL DITHIOCARBAMATE, METAM SODIUM SOIL FUMIGANT SOLUTION FOR CROPS
VAPAM-SOIL-FUMIGANT	8				Y				N/A	5	25	N/A	SOIL FUMIGANT PH 9.0-10.5 PRODUCT OF STAUFFER CHEM. CO.



LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES	
	15	20	8	BUNA	PTFE	VITON						OTHER
VARNISH		15	20	8		Y	Y	N/A	1600	8000	N/A	CLASS 8 USE TEFLON INSERT BEARINGS CLASS 20 USE STAINLESS STEEL TIMING GEARS
VARSOL		16	7	8	Y	Y	Y	0.8	1.25	32	0.0006	SIMILAR TO STODDARD SOLVENT NEUTRAL PH VALUE
VEGETABLE-OIL		3	14	37	8	Y	Y	0.95	10	50	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS
VEGETABLE-SHORTENING		3	14	37	8	Y	Y	0.91	N/A	N/A	N/A	150 TO 1500 SSU SOYBEAN OIL BASE CLASS 8 USE TEFLON INSERT BEARINGS
VESTANAT		7	8			Y		1.06	15	80		ALSO CALLED ISOPHORONE DIISOCYANATE
VINEGAR		8			Y	Y	Y	1.04	N/A	N/A	0.0006	
VINEGAR-(14%-ACETIC-ACID-AND		8				Y	Y	N/A	N/A	N/A	N/A	86% WATER
VINEGAR--120-GRAIN		8				Y		1.04	N/A	N/A	N/A	
VINEGAR--SALT-AND-MUSTARD		8				Y		1.04	N/A	N/A	N/A	
VINEGAR-AND-SUGAR		8				Y		1.11	N/A	N/A	N/A	
VINEGAR-W/5%-ACETIC-ACID		8				Y		1.04	N/A	N/A	N/A	
VINEGAR-WINE		NR						1.04	N/A	N/A	N/A	NOT RECOMMENDED
VINYL-ACETATE		15	27	8		Y		0.934	N/A	N/A	0.0004	CLASS 8 USE TEFLON INSERT BEARINGS MAINLY USED IN ADHESIVES AND PAINTS
VINYL-ACETATE-HOMOPOLYMER		15	8			Y		0.9345	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS VISCOSITY 10,000 TO 15,000 SSU MAINLY USED IN ADHESIVES AND PAINTS
VINYL-ACRYLIC		15	8			Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINYL-ACRYLIC-LATEX		15	8			Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINYL-CHLORIDE-MONOMER		7	8			Y		0.92	N/A	N/A	N/A	
VINYL-COMPOUND-		15	8			Y		N/A	0.34	24	N/A	CLASS 8 USE TEFLON INSERT BEARINGS 16% MEK, 42% TOLUOL
VINYL-ESTER		15	27	8		Y			1	30		VISCOSITY MAY VARY - EVEN TO SLURRY FORM CLASS 27 USE SS TIMING GEARS
VINYL-RESINS		15	8			Y		N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
VINYLTOLUENE		15	8			Y		0.89	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
WALDORF-BLEND-4		16	7	8		Y		0.842				ISOPROPANOL 40%, N-PROPYL ACETATE 40% TOLUENE 15%, PROPANOL 5% SOLVENT BLEND PER ABOVE RATIOS
WASTE-OIL-(RECOVERY,ABRASIVE)		14	37	47				N/A	N/A	N/A	N/A	COARSE MESH STRAINER (20M) RECOMMENDED TO PREVENT METER LOCK-UP OR FAILURE SELECT STRAINER DESIGNED FOR EASY CLEANING
WATER,-ARSENIC-&-COPPER		8				Y		N/A	N/A	N/A	0.0002	
WATER,-SOUR-W/5%-HYDROGEN-		8				Y		N/A	N/A	N/A	0.0002	*SULFIDE
WATER-&-OIL		4	20	8		Y	Y	N/A	14	70	N/A	
WATER-&-ORGANIC-SOLUTION		30	15	8		Y	Y	1.2	5	40	0.0002	CLASS 8 USE TEFLON INSERT BEARINGS
WATER--BOILER-FEED		NR						1	N/A	N/A	N/A	NOT RECOMMENDED

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL			SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON					
WATER--CITY	20	8	4	Y	Y	Y	1	1.6	8	0.0002	CLASS 04 GOOD BELOW 170 F. CLASS 08 GOOD BELOW 210 F CLASS 20 GOOD BELOW 210 F VALVE SEAT - TEFLON
WATER--OUT-BACK	20	8	4		Y		N/A	N/A	N/A	0.0002	
WATER--DE-OXYGENATED	20	8	4	Y	Y	Y	N/A	N/A	N/A	0.0002	
WATER--DEIONIZED	4	8		Y	Y	Y	1	1.6	8	0.0002	BRASS NOT RECOMMENDED
WATER--DEMINERALIZED	4	8		Y	Y	Y	1	N/A	N/A	0.0002	BRASS NOT RECOMMENDED
WATER--DISTILLED	20	8	4	Y	Y	Y	N/A	N/A	N/A	0.0002	METERING TEMPERATURE 180 DEG F MAX.
WATER--FRESH	20	8	4	Y	Y	Y	1	N/A	N/A	0.0002	
WATER--HARD-WITH-RAW-SALT	8			Y	Y	Y	N/A	N/A	N/A	N/A	
WATER--PROCESS	20	8	4	Y	Y	Y	N/A	N/A	N/A	0.0002	
WATER--PURE	20	8	4	Y	Y	Y	1	N/A	N/A	0.0002	
WATER--SALT	8			Y	Y	Y	N/A	N/A	N/A	N/A	AVOID DISSIMILAR METALS
WATER--SALT-&-10%-CRUDE	8			Y	Y	Y	N/A	N/A	N/A	N/A	AVOID DISSIMILAR METALS
WATER--SEA	8			Y	Y	Y	1.025	N/A	N/A	0.0002	AVOID DISSIMILAR METALS
WATER--SEA-W/CAUSTIC-FLUSH	8			Y	Y	Y	N/A	N/A	N/A	N/A	AVOID DISSIMILAR METALS
WATER-70%--SOY-BEAN-CAKE-25%	30	15	8	Y	Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS *CLAY 5%
WATER-80%-WITH-SODIUM-	7	8		Y	Y	Y	N/A	N/A	N/A	N/A	*DODECYLSODIUM BENZENESULFONATE
WATER-AND-AMMONIA-SULFATE	8			Y	Y		N/A	N/A	N/A	N/A	
WATER-AND-METHANOL	4	8		Y	Y		N/A	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS
WATER-DISTILLED-W/10%-LACTIC	4	8		Y	Y		N/A	N/A	N/A	N/A	CLASS 4 USE STAINLESS STEEL TIMING GEARS USE CLASS 4 UP TO 100 DEG F USE CLASS 8 IF ABOVE 100 DEG F *ACID
WATER-HEATED	20	8	4	Y	Y	Y	N/A	N/A	N/A	N/A	MAX. OPERATING TEMPERATURE 180 DEG F.
WATER-MIX-(SEE-NOTES)	NR						N/A	N/A	N/A	N/A	15-70% WATER, 10-40% SODIUM SULFATE, 20-45% CAUSTIC NOT RECOMMENDED
WATER-MIXTURE-(SEE-NOTES)	7	8			Y	Y	N/A	N/A	N/A	N/A	WATER WITH 2.7% SODIUM HYDROXIDE, 20% SODIUM SULFATE
WATER-OILY-(REFINERY)	14			Y	Y	Y	N/A	N/A	N/A	N/A	
WATER-ON-OILWELL-SEPARATOR	4	8	20	Y	Y	Y	N/A	N/A	N/A	N/A	DO NOT USE CLASS 20 BRASS METER IF WATER HAS HIGH SULFUR CONTENT
WATER-POTABLE	20	8	4	Y	Y	Y	N/A	N/A	N/A	0.0002	
WATER-SOFT	20	8	4	Y	Y	Y	N/A	N/A	N/A	0.0002	
WATER-SOLUBLE-RESINS	15	8			Y	Y	N/A	N/A	N/A	N/A	CLASS 8 USE TEFLON INSERT BEARINGS
WAX--HOT	14	37		Y	Y	Y	N/A	N/A	N/A	0.0008	
WAX--HOT-(MEKON-WHITE-&-NOTE)	14	37		Y	Y	Y	N/A	N/A	N/A	N/A	MOBIL 150) METERING TEMPERATURE 190-250 DEG F HEAT EXTENSION
WAX-MOLTEN	14	37			Y	Y	N/A	30	150	0.0008	
WHISKEY	8			Y	Y	Y	N/A	N/A	N/A	N/A	

LIQUID TO BE METERED	RECOMMENDED METER CLASS			RECOMMENDED SEAL MATERIAL				SPECIFIC GRAVITY	CENTIPOISE	SSU	COEFF OF EXPANSION	NOTES
				BUNA	PTFE	VITON	OTHER					
WINE	8			Y	Y	Y		N/A	N/A	N/A		
WINDSHIELD-WASHER-SOLVENT	4	16	20	8	Y							CLASS 16 USE SS GEARS TYPICALLY WATER/GLYCOL/METHANOL MIXTURE VITON NOT RECOMMENDED CHEMICALLY OR FOR LOW TEMPS
WINTERGREEN-OIL	3	14	37	8	Y	Y		1.185	N/A	N/A		CLASS 8 USE TEFLON INSERT BEARINGS
WOOD-ALCOHOL	16	7	8		Y		Y	0.7924	N/A	N/A		
XYLENE	16	7	8		Y	Y		0.86	N/A	N/A		
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				Y	N						SYNONYMS: AMINODIMETHYLBENZENE, AMINOXYLENE, DIMETHYLAMINO BENZENE, N-N DIMETHYL ANILINE (DMA).
XYLOL,-VMP-NAPHTHA,-MINERAL	16	7	8		Y	Y		N/A	N/A	N/A		SPIRITS AND ESSO 100, ALL PRODUCTS THROUGH THE SAME METER
YEAST	8				Y			N/A	N/A	N/A		
YEAST-SLURRY	8				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 COULD BE CONSIDERED CONSULT CUSTOMER SERVICE
ZINC-SULFATE	8				Y	Y	Y	1.96	N/A	N/A		

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