

Product Family Characteristics Table 09-03-08
 Measuring Sector Agenda Item 2-Product Families-Oct 2008
 Attachment #1-Product Families Table Proposed Revision

Product Group	Liquid Name	Viscosity (60F) Centipoises/Centistokes	Specific Gravity (60 F)
Normal Liquids			
Fuels, Lubricants, Industrial and Food Grade Liquid Oils	Diesel Fuel	10 cps	0.72
	Distillate		
	Gasoline	0.28 cps	0.72
	Fuel Oil (#1, #2, #3, #4)	8 to 88 cPs.	0.9
	Kerosene	1.94 cps	0.75
	Light Oil	13.47 cps	0.86
	Spindle Oil		
	Lubricating Oils	20 to 1000 cPs.	0.80-0.90
	SAE Grades	192-3626 cps	0.9
	Bunker Oil	11,200 cps	0.99
	6 Oil (#5, #6)	66-13,000 cPs.	0.9
	Crude Oil	3-1783 cps	0.79-0.97
	Asphalt	100 – 5000 cPs	
	Vegetable Oil	133 cps	0.92
	Biodiesel above B20	10.12 cps	0.86
	Avgas	1.5 to 6 cPs.	
	Jet A	1.5 to 6 cPs.	
	Jet A-1	1.36 cps	0.76
	Jet B	1.5 to 6 cPs.	
	JP4	1.02 cps	0.76
	JP5	1.94 cps	0.76
	JP7	1.82 cps	0.76
	JP8		
Cooking Oils	9.93 cps	0.92	
Sunflower Oil	90.1 cps	0.93	
Soy Oil	90.6 cps	0.93	
Peanut Oil	11 cPs. to 110 cPs	0.9-1.0	
Olive Oil	116.8 cps	0.92	
Corn Oil	4.0 cps	0.91	
Normal Liquids			
Solvents General	Acetates	0.44 cps	0.93
	Acetone	0.34 cps	0.8
	Esters		
	Ethylacetate	1.36 cps	0.96
	Hexane	0.34 cps	0.66
	MEK	0.45 cps	0.81
	Toluene	0.62 cps	0.87
	Xylene	0.86 cps	0.89

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Solvents Chlorinated	Carbon Tetra- Chloride	0.99 cps	1.6
	Methylene-Chloride	0.46 cps	1.34
	Perchloro-Ethylene	1	1.6
	Trichloro-Ethylene	0.6 cps	1.47
Normal Liquids			
Alcohols, Glycols & Water Mixes Thereof	Ethanol	1.29 cps	0.79
	Methanol	0.64 cps	0.80
	Butanol	3.34 cps	0.81
	Isopropyl	2.78 cps	0.79
	Isobutyl	4.54 cps	0.81
	Ethylene glycol	25.5 cps	1.19
	Propylene glycol	54 cps	1.04
Normal Liquids			
Water	Tap Water	1.0 cPs	1.0
	Deionized	1.0 cPs	1.0
	Demineralized	1.0 cPs	1.0
	Potable	1.0 cPs	1.0
	Nonpotable	1.0 cPs	1.0
Normal Liquids			
Clear Liquid Fertilizers	Nitrogen Solution		
	28%, 30% or 32%		
	20% Aqua- Ammonia		
	Urea	1.0 cps	1.89
	Ammonia Nitrate	11.22 cps	1.16-1.37
	N-P-K solutions		
	10-34-0	48 cps	1.39
	9-18-9		1.32
Normal Liquids			
Crop Chemicals	Herbicides		
	Round-up	1.0	1.01
	Touchdown		1.4
	Banvel		1.19
	Treflan		1.12
	Paraquat		1.12
	Prowl		1.06

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Crop Chemicals	Fungicides		
	Insecticides		
	Adjuvants		
	Fumigants		
	Dual		1.11
	Bicep		1.11
	Marksman		1.16
	Broadstrike		1.12
	Doubleplay		
	Topnotch	140 – 400 cps	1.16
	Guardsmen		1.12
	Harness		1.11
Normal Liquids			
Crop Chemicals	Fungicides		
Normal Liquids			
Crop Chemicals	Micronutrients		
Normal Liquids			
Suspension Fertilizers	3-10-30		
	4-4-27		
Normal Liquids			
Liquid Feeds	Liquid Molasses	8640 cps	1.25
	Molasses plus Phos Acid and/or Urea (Treacle)	2882 cps	1.1 to 1.3
Normal Liquids			
Chemicals	Sulfuric Acid	1.49 cps	1.83
	Hydrochloric Acid	1.0 – 0.80 cps	1.1
	Phosphoric Acid	161 cps	1.87

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Heated Products			
	Bunker C	11,200 cps	1.99
	Asphalt	100 – 5000 cPs	
Compressed Liquids			
Fuels and Refrigerants	LPG		
	Propane	0.098 cps	0.504
	Butane	0.19 cps	0.595
	Ethane		
	Freon 11	0.313 cps	1.49
	Freon 12	0.359 cps	1.33
	Freon 22	1.99 cps	1.37
Compressed Liquids			
NH ₃	Anhydrous Ammonia	0.188 cps	0.61
Compressed Gases			
	Compressed Natural Gas (CNG)		0.6 to 0.8 (1=Air)
Cryogenic Liquids and Liquefied Natural Gas			
	Liquefied Oxygen	0.038 cps	0.66
	Nitrogen	1.07 cps	0.31
	Liquefied Natural Gas		