



## VP Lubricant Base Oils Typical Oil Properties

VP Lubricant Base Oils are premium-quality, fully refined and dewaxed paraffinic base oils. These oils are well suited for formulating a wide variety of automotive, industrial and marine lubricants, as well as, diluents for additives and process oil applications. Physical properties are listed below and may vary slightly.

VP		100	165	500	700	150 BS
METHOD	TEST	TYPICAL PROPERTIES				
VISUAL	Appearance	←-----CLEAR AND BRIGHT-----→				
D4052	API Gravity	32.9	30.2	28.6	26.9	25.0
CALC	Lbs/Gallon @ 60°F/15.6°C	7.17	7.29	7.36	7.44	7.53
D445	Viscosity					
	@ 40 °C, cSt	19.6	31.0	95.7	143.5	482.8
	@ 100 °C, cSt	4.0	5.3	10.8	13.8	31.7
	@ 100 °F, SUS	104	160	500	775	2590
D2270	Viscosity Index	96	97	96	91	96
D5293	CCS @ -25°C, Cp	1241	-	-	-	-
	@ -20 °C, Cp	-	2130	-	-	-
D97	Pour Point, °C	-19	-9	-7	-7	-6
D92	COC Flash Pt, °C	204	218	259	270	305
D1500	ASTM Color	L0.5	L0.5	L1.5	L2.0	L3.5
D4294	Sulfur, Wt. %	0.27	0.39	0.50	0.82	1.10
D2887	GC Sim Distillation					
	Boiling Range, °C					
	5%	290	307	304	315	258
	95%	350	364	415	426	387
	% Off at 700°F/371°C	530	519	547	555	563
D5800	Noack Vol, Wt. %	15.6	7.4			
D4530	CCR, Wt. %	25.3	15.4			
D4530	CCR, Wt. %	<0.01	<0.01	0.03	0.05	0.51
D2007	Clay Gel Analysis					
	Asphaltenes, Wt. %	<0.1	<0.1	<0.1	<0.1	<0.1
	Aromatics, Wt. %	24.9	31.1	28.0	33.7	36.1
	Polar Cpds, Wt. %	0.2	0.3	0.4	0.7	3.2
	Saturates, Wt. %	74.9	68.6	71.6	65.4	60.7

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