

# LUBND™ 500

## PALE OIL

This severely hydro treated naphthenic base oil is primarily used in the metal working and compounder blending industries. It has a low pour point, a low odor level, excellent color, and resistance to discoloration by heat or ultraviolet light.

TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS		
		Min	Max	Typical
Physical properties				
Viscosity SUS@ 100°F(37.8°C)	ASTM D 2161	500	550	522
Viscosity SUS@ 210°F(98.9°C)	ASTM D 2161			54.3
Viscosity cSt@ 40°C (104°F)	ASTM D 445	94.4	103.3	97.8
Viscosity cSt@ 100°C(212°F)	ASTM D 445			8.29
API Gravity, 60 °F (15.6 °C)	ASTM D 4052	19.3	23.5	21.4
Specific Gravity, 60°F (15.6°C)	ASTM D 1250			0.9254
Viscosity Gravity Constant	ASTM D 2501			0.870
Density, lbs/gal @ 60°F	ASTM D 1250			7.707
Molecular Weight	ASTM D 2502			490
Flash Point COC °F (°C)	ASTM D 92	195(380)		200(390)
Color	ASTM D 1500		2.0	L1.5
Pour Point °F(°C)	ASTM D 97		-15 (+5)	-25 (-13)
Aniline Point, °F (°C)	ASTM D 611			84 (183)
Saturates, Mass%	ASTM D 2007			58.6
Sulfur, Mass %	ASTM D 4294		0.10	0.08
Refractive Intercept	ASTMD 2159			1.047
Refractive Index @ 20 °C	ASTMD 1747			1.510
Aromatic Carbon Atoms, % Ca	ASTMD 2140			19
Naphthenic Carbon Atoms, Cn	ASTMD 2140			35
Paraffinic Carbon Atoms, %Cp	ASTMD 2140			46
Asphaltenes, Mass %	ASTMD 2007			0
Polar Compounds, Mass %	ASTMD 2007			.90
Aromatics, Mass %	ASTMD 2007			40.5
Volatility, 22 hr/225 °F, % Mass	ASTMD 972	PASS		PASS
DMSO Extract, wt%	IP-346		3.0	<3.0
UV Absorptivity, 260 NM	ASTMD 2008			5.3