

# LUBBO™ 2000

## Pale Oil

This severely hydro treated naphthenic base oil is primarily developed as an aromatic replacement for use in the rubber industry. It has low pour point, a low odor level, excellent color, and resistance to discoloration by heat or ultraviolet light.

TEST DESCRIPTION	TEST METHOD	MARKETING SPECIFICATIONS		MARKETING VALUES
		Min	Max	
Physical properties				
Viscosity SUS@ 100°F(37.8°C)	ASTM D 445	2000	2400	2128
Viscosity SUS@ 210°F(96.9°C)	ASTM D 445			101
Viscosity cSt@ 40°C (104°F)	ASTM D 341			389
Viscosity cSt@ 100°C(212°F)	ASTM D 341	18.8	24.8	20.0
API Gravity 60°F (15.6°C)	ASTM D 1250			21.9
Specific Gravity 60°F(15.6°C)	ASTM D 4052			0.9224
Viscosity Gravity Constant	ASTM D 2501			0.8473
Density, lbs/gal @ 60°F	ASTM D 1250			7.681
Molecular Weight	ASTM D 2502			565
Flash Point COC °F (°C)	ASTM D 92	470(243)		513(287)
Color ASTM	ASTM D 6045		3.0	L2.5
Pour Point °F(°C)	ASTM D 5949		30(-1)	3(-16)
Water Content	ERTM-1	PASS		PASS
Appearance	ERTM-2	PASS		PASS
Chemical Properties				
Acid Number, mg KOH/g	ASTM D 664		0.05	0.01
Aniline Point, °F (°C)	ASTM D 611	200.0 (93.3)	215.0(101.7)	208.3(97.9)
Sulfur, wt%	ASTM D 4294			0.090
Sulfur, ppm	ASTM D 4294			900
Health and Safety Properties				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay	ASTM E 1687	PASS		PASS