

# LUBBO-T™ 3000

## Black Oil Specifications

This naphthenic-based black oil is a blend of hydrotreated base oils and heavy residuals. It is primarily developed as an aromatic replacement for use in the rubber industry.

TEST NAME	TEST METHOD	SPECIFICATIONS		
		Minimum	Maximum	Typical
Viscosity, cSt @ 40° C	D-445			529.2
Viscosity, cSt @ 100° C	D-445			24.21
Viscosity, SUS @ 100° F	D-2161			2914
Viscosity, SUS @ 210° F	D-2161	90	140	120.8
Gravity, API, 60° F	D-4052	17.5	22.3	18.0
Specific Gravity, 60/60° F	D-1250	.92	.95	.932
Pounds per Gallon @ 60° F	D-1250			7.762
Flash, COC, °C (°F)	D-92	220 (430)		225 (437)
Pour Point, °C (°F)	D-97		-9 (+15)	-12 (+10)
Color	D-1500			BLACK
Clay-Gel Analysis	D-2007			
Asphaltenes				1.5
Polars				5.8
Aromatics				41.1
Saturates			60	51.6
Polycyclic Aromatics	IP-346		3.0	2.2
PAH				
Benzo (a) anthracene				0.18
Benzo (a) pyrene				0.32
Benzo (b) fluoranthene				0.45
Benzo (j) fluoranthene				0.45
Benzo (k) fluoranthene				0.45
Benzo (a) phenanthrene				0.52
Dibenzo (a,h) anthracene				0.03
Benzo (e) pyrene				5.69
		Total 10 ppm max.		8.09