

HyPrene L500

Naphthenic Process Oil Marketing Specification

This severely hydrotreated naphthenic process oil provides good solvency for the rubber and chemical processing 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		TYPICAL VALUES
		MIN	MAX	
Physical Properties				
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	500	550	525
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			55.5
Viscosity, cSt at 40°C (104°F)	ASTM D445	94.2	103.0	98.9
Viscosity, cSt at 100°C (212°F)	ASTM D445			8.7
API Gravity, 60°F (15.6°C)	ASTM D1250			22.8
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9168
Viscosity-Gravity Constant	ASTM D2501			0.859
Density, lbs/gal at 60°F	ASTM D1250			7.634
Density at 15.6°C, g/cm ³	ASTM D1250			0.9160
Molecular Weight	ASTM D2502			390
Flash Point, COC, °F (°C)	ASTM D92	392 (200)		426 (219)
Flash Point, PMCC, °F (°C)	ASTM D93	374 (190)		402 (205)
Color, ASTM	ASTM D6045		2.0	L1.0
Pour Point, °F (°C)	ASTM D5949		10 (-12)	-26 (-32)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			1.1
Water Content, ppm	ASTM D7546M		PASS	PASS
Appearance	ASTM D4176M		PASS	PASS
Chemical Properties				
Acid Number, mg KOH/g	ASTM D664		0.05	0.01
Aniline Point, °F (°C)	ASTM D611	185 (85)	200 (93)	189 (87)
Sulfur, ppm	ASTM D4294			432
Refractive Index, 20°C (68°F)	ASTM D1218			1.5020
UV Absorptivity at 260 nm	ASTM D2008		4.50	2.63
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				0.9
Aromatics				39.8
Saturates				59.3
Carbon Type Analysis, %	ASTM D2140			
Ca				11
Cn				40
Cp				49
Health and Safety Properties				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1