

HyPrene L200

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 D 2161	200	215	211
Viscosity, SUS at 210°F (98.9°C)	ASTM D 2161			43.9
Viscosity, cSt at 40°C (104°F)	ASTM D 445	38	42	40.5
Viscosity, cSt at 100°C (212°F)	ASTM D 445			5.3
API Gravity, 60°F (15.6°C)	ASTM D 1250			23.8
Specific Gravity, 60°F (15.6°C)	ASTM D 4052			0.9111
Viscosity-Gravity Constant	ASTM D 2501			0.864
Density at 15.6°C, g/cm ³	ASTM D 4052			0.9106
Density, lbs/gal at 60°F	ASTM D 1250			7.587
Molecular Weight	ASTM D 2502			338
Flash Point, COC, °F (°C)	ASTM D 92	340 (171)		367 (186)
Flash Point, PMCC, °F (°C)	ASTM D 93	320 (160)		346 (174)
Color, ASTM	ASTM D 6045		1.5	L1.0
Pour Point, °F (°C)	ASTM D 5949		-10 (-23)	-40 (-40)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D 972			6.40
Water Content	ASTM D 7546M	PASS		PASS
Appearance	ASTM D 4176M	PASS		PASS
Chemical Properties				
Acid Number, mg KOH/g	ASTM D 664		0.05	0.01
Aniline Point, °F (°C)	ASTM D 611	170.0 (76.7)	190.0 (87.8)	178 (81)
Sulfur, ppm	ASTM D 4294			240
Refractive Index, 20°C (68°F)	ASTM D 1218			1.4982
UV Absorptivity at 260 nm	ASTM D 2008			2.16
Clay-Gel, wt%	ASTM D 2007			
Asphaltenes				<0.1
Polar Compounds				0.3
Aromatics				34.2
Saturates				65.5
Carbon Type Analysis, %	ASTM D 2140			
Ca				11
Cn				44
Cp				45
Carbon Type Analysis	IR Brandes			
Ca				19
Cn				25
Cp				56
Health and Safety Properties				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E 1687		1	<1

Dated: 1-14-2015