

HyPrene L300

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	300	320	311
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			48.1
Viscosity, cSt at 40°C (104°F)	ASTM D445	57.2	60.9	59.1
Viscosity, cSt at 100°C (212°F)	ASTM D445			6.5
API Gravity, 60°F (15.6°C)	ASTM D1250			23.5
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9127
Viscosity-Gravity Constant	ASTM D2501			0.860
Density, lbs/gal at 60°F	ASTM D1250			7.601
Density at 15.6°C, g/cm ³	ASTM D1250			0.9119
Molecular Weight	ASTM D2502			360
Flash Point, COC, °F (°C)	ASTM D92	350 (177)		381 (194)
Flash Point, PMCC, °F (°C)	ASTM D93			346 (174)
Color, ASTM	ASTM D6045		1.5	L0.5
Pour Point, °F (°C)	ASTM D5949		0 (-18)	-31 (-35)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			5.8
Water Content	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	175 (79)	195 (91)	185 (85)
Sulfur, ppm	ASTM D4294			273
Refractive Index, 20°C (68°F)	ASTM D1218			1.4984
UV Absorptivity at 260 nm	ASTM D2008			1.49
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				0.4
Aromatics				37.1
Saturates				62.5
Carbon Type Analysis, %	ASTM D2140			
Ca				10
Cn				43
Cp				46
Health and Safety Properties				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1