

HyPrene L101

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	108	131	121
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			39.4
Viscosity, cSt at 40°C (104°F)	ASTM D445	20.5	25.0	22.9
Viscosity, cSt at 100°C (212°F)	ASTM D445			3.9
API Gravity, 60°F (15.6°C)	ASTM D1250			25.5
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9010
Viscosity-Gravity Constant	ASTM D2501			0.860
Density, lbs/gal at 60°F	ASTM D1250			7.504
Density at 15.6°C, g/cm ³	ASTM D1250			0.8992
Molecular Weight	ASTM D2502			314
Flash Point, COC, °F (°C)	ASTM D92	315 (157)		335 (168)
Flash Point, PMCC, °F (°C)	ASTM D93	290 (143)		305 (152)
Color, ASTM	ASTM D6045		1.0	L1.0
Pour Point, °F (°C)	ASTM D5949		-30 (-34)	-59 (-50)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			14.7
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	158 (70)	183 (84)	177 (80)
Sulfur, ppm	ASTM D4294			194
Refractive Index, 20°C (68°F)	ASTM D1218			1.4909
UV Absorptivity at 260 nm	ASTM D2008			1.25
Carbon Type Analysis, %	ASTM D2140			
Ca				7
Cn				49
Cp				44
Health and Safety Properties				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1