

## HyPrene L151

### 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	
<b>Physical Properties</b>				
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	150	165	160
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			41.8
Viscosity, cSt at 40°C (104°F)	ASTM D445	28.5	33.0	30.7
Viscosity, cSt at 100°C (212°F)	ASTM D445			4.6
API Gravity, 60°F (15.6°C)	ASTM D1250			25.2
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9034
Viscosity-Gravity Constant	ASTM D2501			0.858
Density, lbs/gal at 60°F	ASTM D1250			7.522
Density at 15.6°C, g/cm <sup>3</sup>	ASTM D1250			0.9013
Molecular Weight	ASTM D2502			339
Flash Point, COC, °F (°C)	ASTM D92	315 (157)		341 (172)
Flash Point, PMCC, °F (°C)	ASTM D93			310 (155)
Color, ASTM	ASTM D6045		1.5	L1.0
Pour Point, °F (°C)	ASTM D5949		-20 (-29)	-51 (-46)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			8.7
Water Content	ASTM D7546M		PASS	PASS
Appearance	ASTM D4176M		PASS	PASS
<b>Chemical Properties</b>				
Acid Number, mg KOH/g	ASTM D664		0.05	0.01
Aniline Point, °F (°C)	ASTM D611	165 (74)	187 (86)	181 (83)
Sulfur, ppm	ASTM D4294			218
Refractive Index, 20°C (68°F)	ASTM D1218			1.4933
UV Absorptivity at 260 nm	ASTM D2008			1.48
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				0.6
Aromatics				35.0
Saturates				64.4
Carbon Type Analysis, %	ASTM D2140			
Ca				8
Cn				45
Cp				47
<b>Health and Safety Properties</b>				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1