

## HyPrene MVI 750

### 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	730	800	770
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			65.0
Viscosity, cSt at 40°C (104°F)	ASTM D445	136.6	149.4	144
Viscosity, cSt at 100°C (212°F)	ASTM D445			11.2
API Gravity, 60°F (15.6°C)	ASTM D1250			23.0
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9159
Viscosity-Gravity Constant	ASTM D2501			0.852
Density, lbs/gal at 60°F	ASTM D1250			7.627
Density at 15.6°C, g/cm <sup>3</sup>	ASTM D1250			0.9152
Molecular Weight	ASTM D2502			445
Flash Point, COC, °F (°C)	ASTM D92	385 (196)		442 (228)
Flash Point, PMCC, °F (°C)	ASTM D93			420 (216)
Color, ASTM	ASTM D6045		2.5	L1.5
Pour Point, °F (°C)	ASTM D5949		12 (-11)	-15 (-26)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			0.3
Cloud Point, °F (°C)	ASTM D2500			-54 (-48)
Water Content	ASTM D7546M		PASS	PASS
Appearance	ASTM D4176M		PASS	PASS
Glass Transition Temperature (T <sub>g</sub> ), °C	ASTM D3418			-62
<b>Chemical Properties</b>				
Acid Number, mg KOH/g	ASTM D664		0.05	0.01
Aniline Point, °F (°C)	ASTM D611	193 (89)	209 (98)	202 (94)
Sulfur, ppm	ASTM D4294			502
Refractive Index, 20°C (68°F)	ASTM D1218			1.5020
UV Absorptivity at 260 nm	ASTM D2008			3.22
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				1.2
Aromatics				35.7
Saturates				63.2
Carbon Type Analysis, %	ASTM D2140			
Ca				11
Cn				38
Cp				51
<b>Health and Safety Properties</b>				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1