

## HyPrene V175BS

### Naphthenic Process Oil Marketing Specification

This severely hydrotreated process oil provides excellent color stability and low volatility. It passes the IP 346 labeling requirement.

TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
<b>Physical Properties</b>				
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161			5128
Viscosity, SUS at 140°F (60°C)	ASTM D2161			1196
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	179	229	208
Viscosity, cSt at 40°C (104°F)	ASTM D445			936
Viscosity, cSt at 100°C (212°F)	ASTM D445	37.0	47.0	42.5
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			0.812
Density, lbs/gal at 60°F	ASTM D1250			7.601
Density at 15.6°C, g/cm <sup>3</sup>	ASTM D1250			0.9118
Molecular Weight	ASTM D2502			737
Flash Point, COC, °F (°C)	ASTM D92	540 (283)		563 (295)
Color, ASTM	ASTM D6045		4.0	L2.5
Pour Point, °F (°C)	ASTM D5949		43 (6)	14 (-10)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			0.03
Water Content	ASTM D7546M	PASS		PASS
Appearance	ASTM D4176M	PASS		PASS
Glass Transition Temperature (Tg), °C	ASTM D3418			-52
<b>Chemical Properties</b>				
Acid Number, mg KOH/g	ASTM D664			0.01
Aniline Point, °F (°C)	ASTM D611	239 (115)	266 (130)	252 (122)
Sulfur, ppm	ASTM D4294			505
Refractive Index, 20°C (68°F)	ASTM D1218			1.5012
UV Absorptivity at 260 nm	ASTM D2008			2.66
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				2.7
Aromatics				32.1
Saturates				65.2
Carbon Type Analysis, %	ASTM D2140			
Ca				6
Cn				28
Cp				66
<b>Health and Safety Properties</b>				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1