

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	
Physical Properties				
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161			4995
Viscosity, SUS at 140°F (60°C)	ASTM D2161			1128
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161	179	229	204
Viscosity, cSt at 40°C (104°F)	ASTM D445			912
Viscosity, cSt at 100°C (212°F)	ASTM D445	37.0	47.0	41.8
API Gravity, 60°F (15.6°C)	ASTM D1250			23.6
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9122
Viscosity-Gravity Constant	ASTM D2501			0.816
Density, lbs/gal at 60°F	ASTM D1250			7.596
Density at 15.6°C, g/cm ³	ASTM D1250			0.9113
Molecular Weight	ASTM D2502			733
Flash Point, COC, °F (°C)	ASTM D92	540 (283)		567 (299)
Color, ASTM	ASTM D6045		4.0	L2.5
Pour Point, °F (°C)	ASTM D5950		43 (6)	14 (-10)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			0.04
Water Content	ASTM D7546M	PASS		PASS
Appearance	ASTM D4176M	PASS		PASS
Glass Transition Temperature (Tg), °C	ASTM D3418			-50
Chemical Properties				
Acid Number, mg KOH/g	ASTM D664			0.01
Aniline Point, °F (°C)	ASTM D611	239 (115)	266 (130)	251 (122)
Sulfur, ppm	ASTM D4294			518
Refractive Index, 20°C (68°F)	ASTM D1218			1.5007
UV Absorptivity at 260 nm	ASTM D2008			2.56
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				2.5
Aromatics				31.8
Saturates				65.7
Carbon Type Analysis, %	ASTM D2140			
Ca				6
Cn				28
Cp				66
Health and Safety Properties				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1