

HyPrene MVI 2000

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	2000	2400	2105
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			113
Viscosity, cSt at 40°C (104°F)	ASTM D445	369	441	388
Viscosity, cSt at 100°C (212°F)	ASTM D445			22.5
API Gravity, 60°F (15.6°C)	ASTM D1250			23.1
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9151
Viscosity-Gravity Constant	ASTM D2501			0.836
Density, lbs/gal at 60°F	ASTM D1250			7.621
Density at 15.6°C, g/cm ³	ASTM D1250			0.9143
Molecular Weight	ASTM D2502			565
Flash Point, COC, °F (°C)	ASTM D92	446 (230)		478 (248)
Flash Point, PMCC, °F (°C)	ASTM D93			448 (231)
Color, ASTM	ASTM D6045		4.0	L2.0
Pour Point, °F (°C)	ASTM D5949		26 (-3)	14 (-10)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			0.1
Cloud Point, °F (°C)	ASTM D2500			5 (-15)
Water Content	ASTM D7546M		PASS	PASS
Appearance	ASTM D4176M		PASS	PASS
Glass Transition Temperature (Tg), °C	ASTM D3418			-57
Chemical Properties				
Acid Number, mg KOH/g	ASTM D664		0.05	0.01
Aniline Point, °F (°C)	ASTM D611	220 (104)	240 (116)	230 (110)
Sulfur, ppm	ASTM D4294			606
Refractive Index, 20°C (68°F)	ASTM D1218			1.5021
UV Absorptivity at 260 nm	ASTM D2008			3.32
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				2.1
Aromatics				33.4
Saturates				64.5
Carbon Type Analysis, %	ASTM D2140			
Ca				9
Cn				33
Cp				58
Health and Safety Properties				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1