

## HyPrene P70N

### Paraffinic Process Oil Marketing Specification

This severely hydrotreated paraffinic process oil provides excellent color stability and low volatility.

TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
<b>Physical Properties</b>				
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	60.0	75.0	68.8
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			35.9
Viscosity, cSt at 40°C (104°F)	ASTM D445	9.6	13.3	11.8
Viscosity, cSt at 100°C (212°F)	ASTM D445			2.9
API Gravity, 60°F (15.6°C)	ASTM D1250			33.8
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.8559
Viscosity-Gravity Constant	ASTM D2501			0.817
Density, lbs/gal at 60°F	ASTM D1250			7.132
Density at 15.6°C, g/cm <sup>3</sup>	ASTM D1250			0.8552
Molecular Weight	ASTM D2502			312
Flash Point, COC, °F (°C)	ASTM D92	330 (166)		369 (187)
Flash Point, PMCC, °F (°C)	ASTM D93			347 (175)
Color, ASTM	ASTM D6045		1.5	L0.5
Pour Point, °F (°C)	ASTM D5949		5 (-15)	1 (-17)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			2.57
Water Content	ASTM D7546M		PASS	PASS
Appearance	ASTM D4176M		PASS	PASS
<b>Chemical Properties</b>				
Acid Number, mg KOH/g	ASTM D664			0.01
Aniline Point, °F (°C)	ASTM D611	190 (88)	210 (99)	206 (97)
Sulfur, ppm	ASTM D7220			4
Refractive Index, 20°C (68°F)	ASTM D1218			1.4692
UV Absorptivity at 260 nm	ASTM D2008			0.11
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.01
Polar Compounds				0.2
Aromatics				6.2
Saturates				93.6
Carbon Type Analysis, %	ASTM D2140			
Ca				0
Cn				38
Cp				62
<b>Health and Safety Properties</b>				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1
FDA Regulation	21 CFR 178.3620 (C)		PASS	PASS