

HyPrene P220N

Paraffinic Process Oil Marketing Specification

This severely hydrotreated paraffinic 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	205	235	219
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			48.5
Viscosity, cSt at 40°C (104°F)	ASTM D445	39.8	45.6	42.6
Viscosity, cSt at 100°C (212°F)	ASTM D445			6.6
API Gravity, 60°F (15.6°C)	ASTM D1250			33.1
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.8598
Viscosity-Gravity Constant	ASTM D2501			0.796
Density, lbs/gal at 60°F	ASTM D1250			7.169
Density at 15.6°C, g/cm ³	ASTM D1250			0.8593
Molecular Weight	ASTM D2502			445
Flash Point, COC, °F (°C)	ASTM D92	400 (204)		457 (236)
Flash Point, PMCC, °F (°C)	ASTM D93			433 (223)
Color, ASTM	ASTM D6045		2.0	L1.0
Pour Point, °F (°C)	ASTM D5949			2 (-17)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			0.03
Water Content	ASTM D7546M		PASS	PASS
Appearance	ASTM D4176M		PASS	PASS
Chemical Properties				
Acid Number, mg KOH/g	ASTM D664			0.01
Aniline Point, °F (°C)	ASTM D611	225 (107)	248 (120)	242 (117)
Sulfur, ppm	ASTM D7220			4
Refractive Index, 20°C (68°F)	ASTM D1218			1.4726
UV Absorptivity at 260 nm	ASTM D2008			0.11
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.01
Polar Compounds				0.1
Aromatics				6.2
Saturates				93.7
Carbon Type Analysis, %	ASTM D2140			
Ca				0
Cn				30
Cp				70
Health and Safety Properties				
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