HyPrene Process Oils

ERGON

HyPrene 60

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
Physical Properties		**MIN**	**MAX**	
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	50.0	65.0	59.7
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			34.2
Viscosity, cSt at 40°C (104°F)	ASTM D445	7.0	12.0	9.5
Viscosity, cSt at 100°C (212°F)	ASTM D445		3.0	2.4
API Gravity, 60°F (15.6°C)	ASTM D1250			28.3
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.8855
Viscosity-Gravity Constant	ASTM D2501			0.856
Density, lbs/gal at 60°F	ASTM D1250			7.374
Density at 15.6°C, g/cm^3	ASTM D1250			0.8846
Molecular Weight	ASTM D2502			275
Flash Point, COC, °F (°C)	ASTM D92	295 (146)		309 (154)
Flash Point, PMCC, °F (°C)	ASTM D93	275 (135)		287 (142)
Color, ASTM	ASTM D6045		0.5	L0.5
Pour Point, °F (°C)	ASTM D5950		-45 (-43)	-85 (-65)
Volatility, wt%, 225°F (Evap. Loss)	ASTM D972			18.6
Water Content, ppm	ASTM D7546M	PASS		PASS
Appearance	ASTM D4176M	PASS		PASS
Chemical Properties				
Acid Number, mg KOH/g	ASTM D664		0.05	0.01
Aniline Point, °F (°C)	ASTM D611	160 (71)	180 (82)	170 (77)
Sulfur, ppm	ASTM D7212		500	43
Refractive Index, 20°C (68°F)	ASTM D1218			1.4829
UV Absorptivity at 260 nm	ASTM D2008		1.50	0.65
Clay-Gel, wt%	ASTM D2007			
Asphaltenes				<0.1
Polar Compounds				0.1
Aromatics				24.8
Saturates				75.1
Carbon Type Analysis, %	ASTM D2140			
Ca				5
Cn				49
Cp				46
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

HyPrene 60 is a product of Ergon Refining, Inc.
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