

## HyPrint 60

### Naphthenic Ink Oil Marketing Specification

This severely hydrotreated naphthenic printing ink oil has a low odor level, and good solvency and volatility.

TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS		TYPICAL VALUES
		MIN	MAX	
<b>Physical Properties</b>				
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 <sup>3</sup>	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)
Water Content	ASTM D7546M	PASS		PASS
Appearance	ASTM D4176M	PASS		PASS
<b>Chemical Properties</b>				
Aniline Point, °F (°C)	ASTM D611	160 (71)	180 (82)	170 (77)
<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

HyPrint 60 is a product of Ergon Refining, Inc.  
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