

## HyPrint 500

### 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	500	550	526
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			55.7
Viscosity, cSt at 40°C (104°F)	ASTM D445	94.2	103.0	99.0
Viscosity, cSt at 100°C (212°F)	ASTM D445			8.7
API Gravity, 60°F (15.6°C)	ASTM D1250			22.9
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9166
Viscosity-Gravity Constant	ASTM D2501			0.858
Density, lbs/gal at 60°F	ASTM D1250			7.633
Density at 15.6°C, g/cm <sup>3</sup>	ASTM D1250			0.9158
Molecular Weight	ASTM D2502			392
Flash Point, COC, °F (°C)	ASTM D92	392 (200)		431 (222)
Flash Point, PMCC, °F (°C)	ASTM D93	374 (190)		390 (199)
Color, ASTM	ASTM D6045		2.0	L1.0
Pour Point, °F (°C)	ASTM D5949		10 (-12)	-29 (-34)
Water Content	ASTM D7546M	PASS		PASS
Appearance	ASTM D4176M	PASS		PASS
<b>Chemical Properties</b>				
Aniline Point, °F (°C)	ASTM D611	185 (85)	200 (93)	190 (88)
<b>Health and Safety Properties</b>				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1

HyPrint 500 is a product of Ergon Refining, Inc.  
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