

## HyGold L501

### Naphthenic Base Oil Marketing Specification

This severely hydrotreated naphthenic base oil is primarily used in the metalworking and compounder blending 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
		MIN	MAX	
<b>Physical Properties</b>				
Viscosity, SUS at 100°F (37.8°C)	ASTM D2161	500	550	525
Viscosity, SUS at 210°F (98.9°C)	ASTM D2161			56.7
Viscosity, cSt at 40°C (104°F)	ASTM D445	94.2	103.0	98.6
Viscosity, cSt at 100°C (212°F)	ASTM D445			9.1
API Gravity, 60°F (15.6°C)	ASTM D1250			23.2
Specific Gravity, 60°F (15.6°C)	ASTM D4052			0.9146
Viscosity-Gravity Constant	ASTM D2501			0.856
Density, lbs/gal at 60°F	ASTM D1250			7.617
Density at 15.6°C, g/cm <sup>3</sup>	ASTM D1250			0.9137
Molecular Weight	ASTM D2502			403
Flash Point, COC, °F (°C)	ASTM D92	392 (200)		405 (207)
Flash Point, PMCC, °F (°C)	ASTM D93			352 (178)
Color, ASTM	ASTM D6045		2.0	L1.0
Pour Point, °F (°C)	ASTM D5949		10 (-12)	-30 (-34)
Water Content	ASTM D7546M	PASS		PASS
Appearance	ASTM D4176M	PASS		PASS
<b>Chemical Properties</b>				
Acid Number, mg KOH/g	ASTM D664		0.05	0.01
Aniline Point, °F (°C)	ASTM D611	185 (85)	200 (93)	194 (90)
Sulfur, ppm	ASTM D4294			363
<b>Health and Safety Properties</b>				
Polycyclic Aromatic Compounds, wt%	IP 346		3	<3
Modified Ames Assay, MI	ASTM E1687		1	<1

HyGold L501 is a product of Ergon Refining, Inc.  
October 8, 2020