

# HyPrint 40

## 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  | 31             | 46       | 38             |
| Viscosity, SUS at 210°F (98.9°C)     | ASTM D2161  |                |          | 30.4           |
| Viscosity, cSt at 40°C (104°F)       | ASTM D445   | 2              | 5        | 4              |
| Viscosity, cSt at 100°C (212°F)      | ASTM D445   |                |          | 1.3            |
| API Gravity, 60°F (15.6°C)           | ASTM D1250  |                |          | 31.4           |
| Specific Gravity, 60°F (15.6°C)      | ASTM D4052  |                |          | 0.8686         |
| Density, lbs/gal at 60°F             | ASTM D1250  |                |          | 7.2342         |
| Density at 15.6°C, g/cm <sup>3</sup> | ASTM D1250  |                |          | 0.8678         |
| Flash Point, COC, °F (°C)            | ASTM D92    | 218 (103)      |          | 243 (117)      |
| Flash Point, PMCC, °F (°C)           | ASTM D93    | 200 (93)       |          | 225 (107)      |
| Color, Saybolt                       | ASTM D6045  | 20             |          | 30.0           |
| Pour Point, °F (°C)                  | ASTM D5950  |                |          | -118 (-83)     |
| Water Content                        | ASTM D7546M |                | PASS     | PASS           |
| Appearance                           | ASTM D4176M |                | PASS     | PASS           |
| <b>Chemical Properties</b>           |             |                |          |                |
| Aniline Point, °F (°C)               | ASTM D611   | 142 (61)       | 162 (72) | 151 (66)       |
| <b>Health and Safety Properties</b>  |             |                |          |                |
| Polycyclic Aromatic Compounds, wt%   | IP 346      |                | 3        | <3             |
| Modified Ames Assay, MI              | ASTM E1687  |                | 1        | <1             |

HyPrint 40 is a product of Ergon Refining, Inc.  
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