HyPrene Process Oils

ERGON

# HyPrene L751

## 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 | 750 | 800 | 778 |
| Viscosity, SUS at 210°F (98.9°C) | ASTM D2161 | | | 65.7 |
| Viscosity, cSt at 40°C (104°F) | ASTM D445 | 140 | 150 | 146 |
| Viscosity, cSt at 100°C (212°F) | ASTM D445 | | | 11.4 |
| API Gravity, 60°F (15.6°C) | ASTM D1250 | | | 22.5 |
| Specific Gravity, 60°F (15.6°C) | ASTM D4052 | | | 0.9191 |
| Viscosity-Gravity Constant | ASTM D2501 | | | 0.856 |
| Density, lbs/gal at 60°F | ASTM D1250 | | | 7.661 |
| Density at 15.6°C, g/cm$^3$ | ASTM D1250 | | | 0.9179 |
| Molecular Weight | ASTM D2502 | | | 450 |
| Flash Point, COC, °F (°C) | ASTM D92 | 388 (198) | | 412 (211) |
| Flash Point, PMCC, °F (°C) | ASTM D93 | | | 403 (206) |
| Color, ASTM | ASTM D6045 | | 3.5 | L2.5 |
| Pour Point, °F (°C) | ASTM D5949 | | 10 (-12) | -7 (-22) |
| Volatility, wt%, 225°F (Evap. Loss) | ASTM D972 | | | 0.6 |
| Water Content, ppm | ASTM D7546M | PASS | | PASS |
| Appearance | ASTM D4176M | PASS | | PASS |
| Glass Transition Temperature (Tg), °C | ASTM D3418 | | | -61 |
| | | | | |
| **Chemical Properties** | | | | |
| Acid Number, mg KOH/g | ASTM D664 | | 0.05 | 0.01 |
| Aniline Point, °F (°C) | ASTM D611 | 190 (88) | 205 (96) | 198 (92) |
| Sulfur, ppm | ASTM D4294 | | | 640 |
| Refractive Index, 20°C (68°F) | ASTM D1218 | | | 1.5040 |
| UV Absorptivity at 260 nm | ASTM D2008 | | | 4.22 |
| Clay-Gel, wt% | ASTM D2007 | | | |
| Asphaltenes | | | | <0.1 |
| Polar Compounds | | | | 2.6 |
| Aromatics | | | | 40.0 |
| Saturates | | | | 57.4 |
| Carbon Type Analysis, % | ASTM D2140 | | | |
| Ca | | | | 12 |
| Cn | | | | 38 |
| Cp | | | | 50 |
| | | | | |
| **Health and Safety Properties** | | | | |
| Polycyclic Aromatic Compounds, wt% | IP 346 | | 3 | <3 |
| Modified Ames Assay, MI | ASTM E1687 | | 1 | <1 |

HyPrene L751 is a product of Ergon Refining, Inc.
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