

HyPrene MVI 150BS

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 |
|----------------------------------------------------|-------------|----------------|-----------|----------------|
| | | MIN | MAX | |
| Physical Properties | | | | |
| Viscosity, SUS at 100°F (37.8°C) | ASTM D2161 | | | 3722 |
| Viscosity, SUS at 210°F (98.9°C) | ASTM D2161 | 130 | 180 | 161 |
| Viscosity, cSt at 40°C (104°F) | ASTM D445 | | | 680 |
| Viscosity, cSt at 100°C (212°F) | ASTM D445 | 26.0 | 37.0 | 32.8 |
| API Gravity, 60°F (15.6°C) | ASTM D1250 | | | 23.2 |
| Specific Gravity, 60°F (15.6°C) | ASTM D4052 | | | 0.9144 |
| Viscosity-Gravity Constant | ASTM D2501 | | | 0.827 |
| Density, lbs/gal at 60°F | ASTM D1250 | | | 7.615 |
| Density at 15.6°C, g/cm ³ | ASTM D1250 | | | 0.9135 |
| Molecular Weight | ASTM D2502 | | | 625 |
| Flash Point, COC, °F (°C) | ASTM D92 | 500 (260) | | 516 (269) |
| Flash Point, PMCC, °F (°C) | ASTM D93 | 410 (210) | | 469 (243) |
| Color, ASTM | ASTM D6045 | | 4.0 | L2.5 |
| Pour Point, °F (°C) | ASTM D5950 | | 45 (7) | 36 (2) |
| Volatility, wt%, 225°F (Evap. Loss) | ASTM D972 | | | 0.2 |
| Cloud Point, °F (°C) | ASTM D2500 | | | 70 (21) |
| Water Content | ASTM D7546M | | PASS | PASS |
| Appearance | ASTM D4176M | | PASS | PASS |
| Glass Transition Temperature (T _g), °C | ASTM D3418 | | | -51 |
| Chemical Properties | | | | |
| Acid Number, mg KOH/g | ASTM D664 | | 0.05 | 0.01 |
| Aniline Point, °F (°C) | ASTM D611 | 220 (104) | 258 (125) | 243 (117) |
| Sulfur, ppm | ASTM D4294 | | | 695 |
| Refractive Index, 20°C (68°F) | ASTM D1218 | | | 1.5022 |
| UV Absorptivity at 260 nm | ASTM D2008 | | | 3.34 |
| Clay-Gel, wt% | ASTM D2007 | | | |
| Asphaltenes | | | | <0.1 |
| Polar Compounds | | | | 2.6 |
| Aromatics | | | | 32.2 |
| Saturates | | | | 65.2 |
| Carbon Type Analysis, % | ASTM D2140 | | | |
| Ca | | | | 8 |
| Cn | | | | 30 |
| Cp | | | | 62 |
| Health and Safety Properties | | | | |
| Polycyclic Aromatic Compounds, wt% | IP 346 | | 3 | <3 |
| Modified Ames Assay, MI | ASTM E1687 | | 1 | <1 |