

SpectraSyn™ 10

Polyalphaolefin (PAO) Fluid

Product Description

SpectraSyn™ Low Viscosity Polyalphaolefin (PAO) basestocks feature low temperature properties, low volatility, and improved thermal stability. SpectraSyn™ Low Viscosity PAO products have high viscosity indices which translate to improved flow at low temperatures and increased film thickness at high temperatures. SpectraSyn™ Low Viscosity PAO products are the primary basestocks for synthetic lubricants used in passenger car engines, heavy-duty diesel engines, transmissions, gear boxes and a variety of industrial applications.

General

| | | | |
|---------------------------|--|---|---|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific | <ul style="list-style-type: none"> Europe Latin America | <ul style="list-style-type: none"> North America |
| Revision Date | <ul style="list-style-type: none"> 07/30/2015 | | |

| Basics | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------------|----------------------|
| Specific Gravity (60.1°F (15.6°C)) | 0.835 | 0.835 | ASTM D4052 |
| Appearance (0°F (-18°C)) | Bright & Clear | Bright & Clear | Visual |
| Color | < 0.5 | < 0.5 | ASTM D1500 |
| Kinematic Viscosity | | | ASTM D445 |
| 212°F (100°C) | 10.0 cSt | 10.0 mm ² /s | |
| 104°F (40°C) | 66 cSt | 66 mm ² /s | |
| -40°F (-40°C) ² | 39000 cSt | 39000 mm ² /s | |
| Viscosity Index | 137 | 137 | ASTM D2270 |
| Pour Point | -54 °F | -48 °C | ASTM D5950/D97 |
| Flash Point, COC | 511 °F | 266 °C | ASTM D92 |
| Noack Volatility | 3.2 wt% | 3.2 wt% | ASTM D5800/DIN 51581 |
| Water | < 50 ppm | < 50 ppm | ASTM D6304 |
| Refractive Index ² (77°F (25°C)) | 1.4615 | 1.4615 | ASTM D1218 |
| Total Acid Number | < 0.05 mg KOH/g | < 0.05 mg KOH/g | ASTM D974 (mod) |

| Flow | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Brookfield Viscosity ² (-40°F (-40°C)) | 36650 cP | 36650 cP | ASTM D2983 |
| Cold Cranking Simulator ² (-22°F (-30°C)) | 8840 cP | 8840 cP | ASTM D5293 |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|---------------------------------|---------------------------------|---------------|
| Density Correction Factor ² | 6.32E-4 (g/cm ³)/°C | 6.32E-4 (g/cm ³)/°C | ASTM D1250 |
| Fire Point, COC ² | 565 °F | 296 °C | ASTM D92 |
| Evaporation Loss ² (302°F (150°C), 22.0 hr) | 0.7 wt% | 0.7 wt% | ASTM D972 |

| Performance | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------------|-------------------------|--------------------|---------------|
| Dielectric Strength ² | 35.6 kV | 35.6 kV | ASTM D877 |

| Solubility | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------------|-------------------------|--------------------|---------------|
| Aniline Point ² | 274.3 °F | 134.6 °C | ASTM D611 |
| Kauri-Butanol Value ² | 5.0 | 5.0 | ASTM D1133 |

Additional Information

Technical White Mineral Oil, 21 CFR 178.3620(b)

National Sanitation Foundation (NSF) White book, category code H1, Lubricants with incidental food contact

Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

SpectraSyn™ 10
Polyalphaolefin (PAO) Fluid**Notes**

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

² Single sample or two sample average determinations

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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