

ExxonMobil SpectraSyn™ 4 Polyalphaolefin (PAO) Fluid

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

Material Notes:

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. **Appearance:** Bright & Clear **Availability:** Africa & Middle East, Asia Pacific, Central America, Europe, North America and South America **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-SpectraSyn-4-Polyalphaolefin-PAO-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.820 g/cc @Temperature 15.6 °C	0.0296 lb/in ³ @Temperature 60.1 °F	ASTM D4052
Viscosity	<= 1.46 cP @Temperature -40.0 °C	<= 1.46 cP @Temperature -40.0 °F	High-Temp. High Shear; ASTM D5481
	<= 5000 cP @Temperature -40.0 °C	<= 5000 cP @Temperature -40.0 °F	Apparent Viscosity by Mini-Rotary Viscometer; ASTM D4684
Brookfield Viscosity	2500 cP @Temperature -40.0 °C	2500 cP @Temperature -40.0 °F	ASTM D2983
Viscosity Measurement	126	126	Index; ASTM D2270
Kinematic Viscosity	14500 cSt @Temperature -47.8 °C	14500 cSt @Temperature -54.0 °F	ASTM D445
	29000 cSt @Temperature -40.0 °C	29000 cSt @Temperature -40.0 °F	ASTM D445
Kinematic Viscosity at 40°C (104°F)	19 cSt	19 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	4.1 cSt	4.1 cSt	ASTM D445
Vapor Pressure	0.000267 bar @Temperature 150 °C	0.200 torr @Temperature 302 °F	ASTM D2879
Evaporation Loss	1.6 % @Temperature 150 °C, Time 79200 sec	1.6 % @Temperature 302 °F, Time 22.0 hour	ASTM D972

Thermal Properties	Metric	English	Comments
Pour Point	-66.1 °C	-87.0 °F	ASTM D5950/D97
Flash Point	220 °C	428 °F	COC; ASTM D92

Optical Properties	Metric	English	Comments
Refractive Index	1.4535	1.4535	ASTM D1218

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.1	2.1	ASTM D924
Dielectric Breakdown	43600 V	43600 V	

Chemical Properties	Metric	English	Comments
Acid Value	<= 0.050	<= 0.050	[mg KOH/g]; ASTM D974 (mod)

Descriptive Properties	Value	Comments
Aniline Point	246.6°F	ASTM D611
Cold Cranking Simulator	1424 cP	-31°F, ASTM D5293
	910 cP	-22°F, ASTM D5293
Color	<0.5	ASTM D1500
Composition	Water	<50 ppm, ASTM D6304 (mod)
Density Correction Factor	0.000641 (g/cc)/°C	ASTM D1250
Fire point	493°F	COC, ASTM D92
Noack Volatility	<14%	ASTM D5800/DIN 51581

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