

ExxonMobil SpectraSyn™ 6 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-6-Polyalphaolefin-PAO-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.827 g/cc	0.0299 lb/in ³	ASTM D4052
	@Temperature 15.6 °C	@Temperature 60.1 °F	
Viscosity	<= 2.08 cP	<= 2.08 cP	High-Temp. High Shear; ASTM D5481
	<= 6500 cP	<= 6500 cP	
Brookfield Viscosity	@Temperature -40.0 °C	@Temperature -40.0 °F	Apparent Viscosity by Mini-Rotary Viscometer; ASTM D4684
	7310 cP	7310 cP	
Viscosity Measurement	@Temperature -40.0 °C	@Temperature -40.0 °F	ASTM D2983
	138	138	
Kinematic Viscosity	7800 cSt	7800 cSt	ASTM D445
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Kinematic Viscosity at 40°C (104°F)	68500 cSt	68500 cSt	ASTM D445
	@Temperature -53.9 °C	@Temperature -65.0 °F	
Kinematic Viscosity at 100°C (212°F)	31 cSt	31 cSt	ASTM D445
	5.8 cSt	5.8 cSt	
Vapor Pressure	0.000133 bar	0.100 torr	ASTM D2879
	@Temperature 150 °C	@Temperature 302 °F	
Evaporation Loss	1.4 %	1.4 %	ASTM D972
	@Temperature 150 °C, Time 79200 sec	@Temperature 302 °F, Time 22.0 hour	
	10.3 %	10.3 %	ASTM D972

Physical Properties	Metric @Temperature 205 °C, Time 23400 sec	English @Temperature 401 °F, Time 0.50 hour	Comments
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Thermal Properties	Metric	English	Comments
Pour Point	-57.2 °C	-71.0 °F	ASTM D5950/D97
Flash Point	246 °C	475 °F	COC; ASTM D92

Optical Properties	Metric	English	Comments
Refractive Index	1.4565	1.4565	ASTM D1218

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.11	2.11	ASTM D924
Dielectric Breakdown	39400 V	39400 V	

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

Descriptive Properties	Value	Comments
Aniline Point	259°F	ASTM D611
Cold Cranking Simulator	2260 cP	-22°F, ASTM D5293
Color	<0.5	ASTM D1500
Composition	Water	<50 ppm, ASTM D6304 (mod)
Density Correction Factor	0.000628 (g/cc)/°C	ASTM D1250
Fire point	511°F	COC, ASTM D92
Kauri-Butanol Value	10.9	ASTM D1133
Noack Volatility	0.064	ASTM D5800/DIN 51581

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