

ExxonMobil SpectraSyn™ 40 Polyalphaolefin (PAO) Fluid

Category : Fluid , Lubricant , Polyalphaolefin (PAO)

Material Notes:

Product Description: SpectraSyn™ High Viscosity Polyalphaolefin (PAO) basestocks feature low temperature properties (pour point and viscosity), low volatility, and improved thermal stability. SpectraSyn™ High Viscosity (PAO) products have high viscosity indices translate into improved flow at low temperatures and increased film thickness at high temperatures. SpectraSyn™ High Viscosity PAO basestocks are particularly suited for industrial oils requiring high stability under extreme operating conditions. SpectraSyn™ High Viscosity PAO products are frequently used in conjunction with lower viscosity fluids (PAO, mineral oils) as a viscosity booster to achieve a wide range of ISO VG industrial and automotive gear oils. **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-40-Polyalphaolefin-PAO-Fluid.php

Physical Properties	Metric	English	Comments
Density	0.850 g/cc	0.0307 lb/in ³	ASTM D4052
	@Temperature 15.6 °C	@Temperature 60.1 °F	
Brookfield Viscosity	102000 cP	102000 cP	ASTM D2983
	@Temperature -26.0 °C	@Temperature -14.8 °F	
Viscosity Measurement	147	147	Index; ASTM D2270
Kinematic Viscosity	4840 cSt	4840 cSt	ASTM D445
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Kinematic Viscosity	40500 cSt	40500 cSt	ASTM D445
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Kinematic Viscosity at 40°C (104°F)	396 cSt	396 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	39 cSt	39 cSt	ASTM D445
Vapor Pressure	0.00120 bar	0.900 torr	ASTM D2879
	@Temperature 200 °C	@Temperature 392 °F	
Evaporation Loss	0.40 %	0.40 %	ASTM D972
	@Temperature 150 °C, Time 79200 sec	@Temperature 302 °F, Time 22.0 hour	
Evaporation Loss	2.5 %	2.5 %	ASTM D972
	@Temperature 205 °C, Time 23400 sec	@Temperature 401 °F, Time 6.50 hour	
Surface Tension	38.9 dynes/cm	38.9 dynes/cm	ASTM D1331A

Thermal Properties	Metric	English	Comments
Pour Point	-36.1 °C	-33.0 °F	ASTM D5950/D97
Flash Point	281 °C	538 °F	COC; ASTM D92

Optical Properties	Metric	English	Comments
Refractive Index	1.468	1.468	ASTM D1218

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.15	2.15	ASTM D924
Dielectric Breakdown	38900 V	38900 V	

Chemical Properties	Metric	English	Comments
Acid Value	<= 0.10	<= 0.10	[mg KOH/g]; ASTM D974 (mod)

Descriptive Properties	Value	Comments
Aniline Point	319.3°F	ASTM D611
Color	<0.5	ASTM D1500
Composition	Water	<50 ppm, ASTM D6304 (mod)
Density Correction Factor	0.000605 (g/cc)/°C	ASTM D1250
Fire point	604°F	COC, ASTM D92

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