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SpectraSyn™ 40 Polyalphaolefin (PAO) Fluid

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 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.

Availability ¹	Africa & Middle East	Africa & Middle East • Europe		 North America 		
Availability	Asia Pacific		 Latin America 			
Revision Date	• 07/01/2019					
Basics	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Specific Gravity (60.1°F (15.6°C))	0.850	(1.19.13.1)	0.850	(0.)	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)	39.0	cSt	39.0	mm²/s		
104°F (40°C)	396	cSt	396	mm²/s		
32°F (0°C) ²	4840	cSt	4840	mm²/s		
-4°F (-20°C) ²	40500	cSt	40500	mm²/s		
Viscosity Index	147		147		ASTM D2270	
Pour Point	-33	°F	-36	°C	ASTM D5950/D9	
Flash Point, COC	538	°F	281	°C	ASTM D92	
Water	< 50	ppm	< 50	ppm	ASTM D6304	
Refractive Index ² (77°F (25°C))	1.4680		1.4680		ASTM D1218	
Total Acid Number	< 0.10	mg KOH/g	< 0.10	mg KOH/g	ASTM D974 (mod	
Flow	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Brookfield Viscosity ² (-15°F (-26°C))	102000	сP	102000	сP	ASTM D2983	
Surface Tension ² (75°F (24°C))	31.5	dyne/cm	31.5	dyne/cm	ASTM D1331A	
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Density Correction Factor ²	6.05E-4	(g/cm ³)/°C	6.05E-4	(g/cm³)/°C	ASTM D1250	
Fire Point, COC ²	604	°F	318	°C	ASTM D92	
Evaporation Loss ² (302°F (150°C), 22.0 hr)	0.4	wt%	0.4	wt%	ASTM D972	
Evaporation Loss ² (401°F (205°C), 6.5 hr)		wt%	2.5	wt%	ASTM D972 (mod	
Vapor Pressure ² (392°F (200°C))	0.9	mm Hg	0.9	mm Hg	ASTM D2879	
Performance	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Dielectric Constant ² (77°F (25°C))	2.15	U	2.15		ASTM D924	
Dielectric Strength ²	38.9	kV	38.9	kV	ASTM D877	
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On	
Aniline Point ²	319.3		159.6		ASTM D611	

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.

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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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