

SpectraSyn™ 100 Polyalphaolefin (PAO) Fluid

Product Description

SpectraSynTM High Viscosity Polyalphaolefin (PAO) basestocks feature low temperature properties (pour point and viscosity), low volatility, and improved thermal stability. SpectraSynTM High Viscosity PAO products high viscosity indices translate into improved flow at low temperatures and increased film thickness at high temperatures. SpectraSynTM High Viscosity PAO basestocks are particularly suited for industrial oils requiring high stability under extreme operating conditions. SpectraSynTM 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 Asia Pacific 	Europe Latin America		North America	
Revision Date	• 08/10/2009		Latin America		
Basics	Typical Value	(English)	Typical Value	X /	Test Based On
Specific Gravity (60.1°F (15.6°C))	0.853		0.853		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)		cSt		mm²/s	
104°F (40°C)	1240			mm²/s	
32°F (0°C) ²	25100			mm²/s	
-4°F (-20°C) ²	250000	cSt		mm²/s	
Viscosity Index	170		170		ASTM D2270
Pour Point	-22			°C	ASTM D5950/D97
Flash Point, COC	541		283		ASTM D92
Water		ppm		ppm	ASTM D6304
Refractive Index ² (77°F (25°C))	1.4715		1.4715		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))	745000	cP	745000	cР	ASTM D2983
Surface Tension ² (75°F (24°C))	32.5	dyne/cm	32.5	dyne/cm	ASTM D1331A
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density Correction Factor ²	* *	(g/cm ³)/°C	V 1	(g/cm ³)/°C	ASTM D1250
Fire Point, COC ²	626	···		°C	ASTM D92
Evaporation Loss ² (302°F (150°C), 22.0 hr)		wt%		wt%	ASTM D972
Evaporation Loss ² (401°F (205°C), 6.5 hr)		wt%		wt%	ASTM D972 (mod
Vapor Pressure ² (392°F (200°C))		mm Hg		mm Hg	ASTM D2879
Performance	Typical Value	(English)	Typical Value	(SI)	Test Based On
Dielectric Constant ² (77°F (25°C))	2.15	(8)	2.15	` /	ASTM D924
Dielectric Strength ²	46.5	kV	46.5		ASTM D877

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.

Notes

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

Effective Date: 08/10/2009 ExxonMobil Page: 1 of 2

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

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

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Effective Date: 08/10/2009 ExxonMobil Page: 2 of 2