

SpectraSyn™ 8 Polyalphaolefin (PAO) Fluid

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.

7 (Validoliity	• Africa & Middle East	• Europe		 North America 	
	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))	0.833		0.833		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)	8.0	cSt	8.0	mm²/s	
104°F (40°C)	48	cSt		mm²/s	
-40°F (-40°C) ²	19000	cSt	19000	mm²/s	
Viscosity Index	139		139		ASTM D2270
Pour Point	-54	°F	-48	°C	ASTM D5950/D9
Flash Point, COC	500	°F	260	°C	ASTM D92
Noack Volatility	4.1	wt%	4.1	wt%	ASTM D5800/DIN 51581
Water	< 50	ppm	< 50	ppm	ASTM D6304
Refractive Index ² (77°F (25°C))	1.4605		1.4605		ASTM D1218
Total Acid Number	< 0.05	mg KOH/g	< 0.05	mg KOH/g	ASTM D974 (mod
Flow	Typical Value	(English)	Typical Value	(SI)	Test Based On
Apparent Viscosity by Mini-Rotary Viscometer ²					ASTM D4684
-40°F (-40°C)	16200	cР	16200	cР	
Brookfield Viscosity ² (-40°F (-40°C))	17590	cР	17590	cР	ASTM D2983
Cold Cranking Simulator ² (-22°F (-30°C))	4800	cР	4800	cР	ASTM D5293
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density Correction Factor ²	6.24E-4	(g/cm³)/°C	6.24E-4	(g/cm³)/°C	ASTM D1250
Fire Point, COC ²	547	°F	286	°C	ASTM D92
Evaporation Loss ² (302°F (150°C), 22.0 hr)	0.8	wt%	0.8	wt%	ASTM D972
Evaporation Loss ² (401°F (205°C), 6.5 hr)	5.5	wt%	5.5	wt%	ASTM D972 (mod
Vapor Pressure ² (302°F (150°C))	0.1	mm Hg	0.1	mm Hg	ASTM D2879
Performance	Typical Value	(English)	Typical Value	(SI)	Test Based On
Dielectric Constant ² (77°F (25°C))	2.12	. 5 - /	2.12	. ,	ASTM D924
Dielectric Strength ²	37.7	kV	37.7	kV	ASTM D877
High-Temp. High-Shear Viscosity ²	2.58	cР	2.58	cP	ASTM D5481
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On
Aniline Point ²	267.4		130.8		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



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Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

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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