

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.

General

Availability ¹	<ul style="list-style-type: none"> ▪ Africa & Middle East ▪ Asia Pacific 	<ul style="list-style-type: none"> ▪ Europe ▪ Latin America 	<ul style="list-style-type: none"> ▪ North America
Revision Date	<ul style="list-style-type: none"> ▪ 07/30/2015 		

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 mm ² /s	
104°F (40°C)	48 cSt	48 mm ² /s	
-40°F (-40°C) ²	19000 cSt	19000 mm ² /s	
Viscosity Index	139	139	ASTM D2270
Pour Point	-54 °F	-48 °C	ASTM D5950/D97
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 cP	16200 cP	
Brookfield Viscosity ² (-40°F (-40°C))	17590 cP	17590 cP	ASTM D2983
Cold Cranking Simulator ² (-22°F (-30°C))	4800 cP	4800 cP	ASTM D5293

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Density Correction Factor ²	6.24E-4 (g/cm ³)/°C	6.24E-4 (g/cm ³)/°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	2.12	ASTM D924
Dielectric Strength ²	37.7 kV	37.7 kV	ASTM D877
High-Temp. High-Shear Viscosity ²	2.58 cP	2.58 cP	ASTM D5481

Solubility	Typical Value (English)	Typical Value (SI)	Test Based On
Aniline Point ²	267.4 °F	130.8 °C	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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