

SpectraSyn™ 4

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	07/01/2019		

Basics	Typical Value (English)	Typical Value (SI)	Test Based On
Specific Gravity (60.1°F (15.6°C))	0.820	0.820	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)	4.1 cSt	4.1 mm ² /s	
104°F (40°C)	19.0 cSt	19.0 mm ² /s	
-40°F (-40°C) ²	2900 cSt	2900 mm ² /s	
-65°F (-54°C) ²	14500 cSt	14500 mm ² /s	
Viscosity Index	126	126	ASTM D2270
Pour Point	-87 °F	-66 °C	ASTM D5950/D97
Flash Point, COC	428 °F	220 °C	ASTM D92
Noack Volatility	< 14.0 wt%	< 14.0 wt%	ASTM D5800/DIN 51581
Water	< 50 ppm	< 50 ppm	ASTM D6304
Refractive Index ² (77°F (25°C))	1.4535	1.4535	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)	< 5000 cP	< 5000 cP	
Brookfield Viscosity ² (-40°F (-40°C))	2500 cP	2500 cP	ASTM D2983
Cold Cranking Simulator ²			ASTM D5293
-22°F (-30°C)	910 cP	910 cP	
-31°F (-35°C)	1424 cP	1424 cP	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Density Correction Factor ²	6.41E-4 (g/cm ³)/°C	6.41E-4 (g/cm ³)/°C	ASTM D1250
Fire Point, COC ²	493 °F	256 °C	ASTM D92
Evaporation Loss ² (302°F (150°C), 22.0 hr)	1.6 wt%	1.6 wt%	ASTM D972
Vapor Pressure ² (302°F (150°C))	0.2 mm Hg	0.2 mm Hg	ASTM D2879

Performance	Typical Value (English)	Typical Value (SI)	Test Based On
Dielectric Constant ² (77°F (25°C))	2.10	2.10	ASTM D924
Dielectric Strength ²	43.6 kV	43.6 kV	ASTM D877
High-Temp. High-Shear Viscosity ²	1.46 cP	1.46 cP	ASTM D5481

Solubility	Typical Value (English)	Typical Value (SI)	Test Based On
Aniline Point ²	246.6 °F	119.2 °C	ASTM D611

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Technical White Mineral Oil, 21 CFR 178.3620(b)

National Sanitation Foundation (NSF), 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.

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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