

SpectraSyn™ 2

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"> ▪ 07/01/2019 		

Basics	Typical Value (English)	Typical Value (SI)	Test Based On
Specific Gravity (60.1°F (15.6°C))	0.798	0.798	ASTM D4052
Appearance (-40°F (-40°C))	Bright & Clear	Bright & Clear	Visual
Color	< 0.5	< 0.5	ASTM D1500
Kinematic Viscosity			ASTM D445
212°F (100°C)	1.7 cSt	1.7 mm ² /s	
104°F (40°C)	5.0 cSt	5.0 mm ² /s	
-40°F (-40°C) ²	252 cSt	252 mm ² /s	
-65°F (-54°C) ²	1263 cSt	1263 mm ² /s	
Pour Point	-87 °F	-66 °C	ASTM D5950/D97
Flash Point, COC	315 °F	157 °C	ASTM D92
Water	< 50 ppm	< 50 ppm	ASTM D6304
Refractive Index ² (77°F (25°C))	1.4418	1.4418	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
Brookfield Viscosity ² (-40°F (-40°C))	360 cP	360 cP	ASTM D2983

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Density Correction Factor ²	6.73E-4 (g/cm ³)/°C	6.73E-4 (g/cm ³)/°C	ASTM D1250
Fire Point, COC ²	349 °F	176 °C	ASTM D92
Evaporation Loss ² (302°F (150°C), 22.0 hr)	75.3 wt%	75.3 wt%	ASTM D972
Vapor Pressure ² (302°F (150°C))	18.0 mm Hg	18.0 mm Hg	ASTM D2879

Performance	Typical Value (English)	Typical Value (SI)	Test Based On
Dielectric Constant ² (77°F (25°C))	2.08	2.08	ASTM D924
Dielectric Strength ²	43.1 kV	43.1 kV	ASTM D877

Solubility	Typical Value (English)	Typical Value (SI)	Test Based On
Aniline Point ²	213.4 °F	100.8 °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

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

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

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