ExxonMobil

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]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ 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))	0.833		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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