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SpectraSyn Plus™ 6

Advanced Polyalphaolefin (PAO) Fluid

Product Description

SpectraSyn Plus™ Advanced Polyalphaolefin (PAO) provide an optimal combination of volatility and low-temperature fluidity. SpectraSyn Plus™ Advanced PAO products viscosity indices translate into improved flow at low temperatures and increased film thickness at high temperatures. SpectraSyn Plus™ Advanced PAO provide superior lubrication as the primary basestocks for synthetic lubricants used in passenger car engines, heavy-duty diesel engines, transmissions, and a variety of industrial applications. SpectraSyn Plus™ Advanced PAO can be used for upgrading mineral oil or Group III basestocks for improved low temperature and volatility performance.

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 [2] (60.1°F (15.6°C))	0.827		0.827		ASTM D4052
Appearance (0°F (-18°C))	Bright & Clear		Bright & Clear		Visual
Color	< 0.5		< 0.5		ASTM D1500
Kinematic Viscosity [2]					ASTM D445
212°F (100°C)	5.9	cSt	5.9	mm^2/s	
104°F (40°C)	30.3	cSt	30.3	mm^2/s	
-40°F (-40°C)	7400	cSt	7400	mm^2/s	
Viscosity Index	143		143		ASTM D2270
Pour Point	< -65	°F	< -54	°C	ASTM D5950/D97
Flash Point, COC	475	°F	246	°C	ASTM D92
Noack Volatility [2]	< 6.0	wt%	< 6.0	wt%	ASTM D5800/DIN 51581
Water	< 50	ppm	< 50	ppm	ASTM D6304
Refractive Index [2] (77°F (25°C))	1.4579		1.4579		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)	6243	cP	6243	cP	
Brookfield Viscosity [2] (-40°F (-40°C))	6289	cP	6289	cP	ASTM D2983
Cold Cranking Simulator [2]					ASTM D5293
77°F (25°C)	1400	cP	1400	cP	
-22°F (-30°C)	2247	cP	2247	cP	
-31°F (-35°C)	3600	cP	3600	cP	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Density Correction Factor [3]	6.32E-4	$(g/cm^3)/°C$	6.32E-4	$(g/cm^3)/°C$	ASTM D1250
Fire Point, COC [2]	532	°F	278	°C	ASTM D92
Evaporation Loss [2] (401°F (205°C), 6.5 hr)	5.7	wt%	5.7	wt%	ASTM D972 (mod)
Vapor Pressure [3] (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 [3] (77°F (25°C))	2.11		2.11		ASTM D924
Dielectric Strength [3]	39.4	kV	39.4	kV	ASTM D877
High-Temp. High-Shear Viscosity [2]	1.86	cP	1.86	cP	ASTM D5481

Solubility	Typical Value (English)		Typical Value (SI)		Test Based On
Aniline Point [3]	257.0	°F	125.0	°C	ASTM D611

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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

[3] Calculated

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

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