

SpectraSyn™ MaX 3.5

Advanced Polyalphaolefin (PAO) Fluid

Product Description

SpectraSyn™ MaX 3.5 is the next generation Polyalphaolefin (PAO) that leverages a unique structure to achieve an exceptional low viscosity, low volatility balance. SpectraSyn™ MaX 3.5 PAO offers improved oxidative stability, enhanced lubricity and traction, excellent low-temperature properties and improved flashpoint versus conventional PAO. SpectraSyn™ MaX 3.5 PAO delivers step-out performance for fuel efficiency improvements as the primary basestock for synthetic lubricants for engine oil and driveline applications. SpectraSyn™ MaX 3.5 PAO also offers improved energy efficiency and thermal management benefits for electric vehicle driveline and e-motor applications and more broadly, enables improved energy efficiency in industrial applications. This product is registered on the LuSC list and can be used to formulate EcoLabel, and other Environmentally Acceptable Lubricants.

General					
Availability ¹	Africa & Middle EastAsia Pacific		Europe Latin America	North America	
Revision Date	• 03/10/2021				
Basics	Typical Value	(English)	Typical Value	(SI)	Test Based On
Specific Gravity ² (60.1°F (15.6°C))	0.817	(Lingiisii)	0.817	(31)	ASTM D4052
Appearance (0°F (-18°C))	Bright & Clear		Bright & Clear		Visual
Color	Stight & Clear		< 0.5		ASTM D1500
Kinematic Viscosity ²	V 0.5		V 0.5		ASTM D445
212°F (100°C)	2.5	cSt	2.5	mm²/s	ASTIVI D443
104°F (40°C)	14.3			mm ² /s	
-40°F (-40°C)	1670			mm²/s	
Viscosity Index	129		129	, 5	ASTM D2270
Pour Point	<-108	°F	<-78	°C	ASTM D5950/D97
Flash Point, COC	453		234		ASTM D92
Noack Volatility ²	< 11.6	wt%	< 11.6		ASTM D5800/DIN 51581
Water	< 9	ppm	< 9	ppm	ASTM D6304
Total Acid Number	< 0.0200		< 0.0200		ASTM D974 (mod)
Flow	Typical Value	(Enalish)	Typical Value	(SI)	Test Based On
Apparent Viscosity by Mini-Rotary Viscometer ²	71	, ,	//		ASTM D4684
-40°F (-40°C)	1317	cР	1317	cР	
Brookfield Viscosity ² (-40°F (-40°C))	1255	cР	1255	cР	ASTM D2983
Cold Cranking Simulator ²					ASTM D5293
-22°F (-30°C)	518	cР	518	cР	
-31°F (-35°C)	790	cР	790	сР	
Thermal	Typical Value	(Fnalish)	Typical Value	(SI)	Test Based On
Density Correction Factor ³	/1	(g/cm ³)/°C	/ 1	(g/cm³)/°C	ASTM D1250
Fire Point, COC ²	489		254		ASTM D92
Evaporation Loss ² (401°F (205°C), 6.5 hr		wt%		wt%	ASTM D972 (mod)
Vapor Pressure ³ (302°F (150°C))	•	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))	2.08	(Lilylisii)	2.08	(31)	ASTM D924
Dielectric Constant (77 F (25 C)) Dielectric Strength 3	34.0	k\/	34.0	kV	ASTM D877
High-Temp. High-Shear Viscosity ²	1.29		1.29		ASTM D5481
riigir remp. riigir-shear viscosity	1.27	-	1.27	<u></u>	, 51111 23 101
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On
Aniline Point ³	244.9	°F	118.3	°C	ASTM D611

Effective Date: 03/10/2021 ExxonMobil Page: 1 of 2



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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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Effective Date: 03/10/2021 ExxonMobil Page: 2 of 2