

# SpectraSyn™ MaX 3.5

## Advanced Polyalphaolefin (PAO) Fluid

#### **Product Description**

General

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.

Availability <sup>1</sup>	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>		<ul> <li>North America</li> </ul>	
Revision Date	• 03/10/2021				
Basics	Typical Value	(English)	Typical Value	(SI)	Test Based On
Specific Gravity <sup>2</sup> (60.1°F (15.6°C))	0.817	, ,	0.817		ASTM D4052
Appearance (0°F (-18°C))	Bright & Clear		Bright & Clear		Visual
Color	< 0.5		< 0.5		ASTM D1500
Kinematic Viscosity <sup>2</sup>					ASTM D445
212°F (100°C)	3.5	cSt	3.5	mm²/s	
104°F (40°C)	14.3	cSt	14.3	mm²/s	
-40°F (-40°C)	1670	cSt	1670	mm²/s	
Viscosity Index	129		129		ASTM D2270
Pour Point	< -108	°F	< -78	°C	ASTM D5950/D9
Flash Point, COC	453	°F	234	°C	ASTM D92
Noack Volatility <sup>2</sup>	< 11.6	wt%	< 11.6	wt%	ASTM D5800/DIN 51581
Water	< 9	ppm	< 9	ppm	ASTM D6304
Total Acid Number	< 0.02	mg KOH/g	< 0.02	mg KOH/g	ASTM D974 (mod
Flow	Typical Value	(English)	Typical Value	(CI)	Test Based On
Apparent Viscosity by Mini-Rotary	Typical value	(English)	Typical value	(31)	ASTM D4684
Viscometer <sup>2</sup>					A311VI D4004
-40°F (-40°C)	1317	cР	1317	cР	
Brookfield Viscosity <sup>2</sup> (-40°F (-40°C))	1255		1255		ASTM D2983
Cold Cranking Simulator <sup>2</sup>					ASTM D5293
-22°F (-30°C)	518	cР	518	сP	
-31°F (-35°C)	790		790		
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Thermal	Typical Value		Typical Value		Test Based On
Density Correction Factor <sup>3</sup>		(g/cm³)/°C		(g/cm³)/°C	ASTM D1250
Fire Point, COC <sup>2</sup>	489		254		ASTM D92
Evaporation Loss <sup>2</sup> (401°F (205°C), 6.5 hr)	4.0	wt%	4.0	wt%	ASTM D972 (mod
Vapor Pressure <sup>3</sup> (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 <sup>3</sup> (77°F (25°C))	2.08	(/	2.08	(-)	ASTM D924
Dielectric Strength <sup>3</sup>	34.0	kV	34.0	kV	ASTM D877
High-Temp. High-Shear Viscosity <sup>2</sup>	1.29		1.29		ASTM D5481
		(= 1, 1)		(51)	
Solubility	Typical Value		Typical Value		Test Based On
Aniline Point <sup>3</sup>	244.9	°F	118.3	٠٠٠	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.

- <sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.
- <sup>2</sup> Single sample or two sample average determinations
- <sup>3</sup> Calculated

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

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