

SpectraSyn[™] 4 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 EastAsia Pacific	EuropeLatin America		North America	
Revision Date	• 07/30/2015				
Design	Tire is all Value	(Faaliah)	Traige Nature	(CI)	Test Based On
Basics Specific Gravity (60.1°F (15.6°C))	Typical Value 0.820	(English)	Typical Value 0.820	(51)	ASTM D4052
Appearance (0°F (-18°C))	Bright & Clear		Bright & Clear		Visual
Color	Silght & Clear		Stright & Clear		ASTM D1500
Kinematic Viscosity	< 0.5		< 0.5		ASTM D1300
212°F (100°C)	11	cSt	11	mm²/s	A311VI D443
104°F (40°C)	19.0			mm²/s	
-40°F (-40°C) ²	2900			mm²/s	
-65°F (-54°C) ²	14500			mm²/s	
	126	CSC	126	11111 / 3	ASTM D2270
Viscosity Index	-87	ог	-66	°C	
Pour Point	428		220		ASTM D5950/D97
Flash Point, COC					ASTM D5000 /DIN
Noack Volatility	< 14.0		< 14.0		ASTM D5800/DIN 51581
Water		ppm		ppm	ASTM D6304
Refractive Index ² (77°F (25°C))	1.4535		1.4535		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)	< 5000	cР	< 5000	cР	
Brookfield Viscosity ² (-40°F (-40°C))	2500	cР	2500	cP	ASTM D2983
Cold Cranking Simulator ²					ASTM D5293
-22°F (-30°C)	910	cР	910	cР	
-31°F (-35°C)	1424	cР	1424	cР	
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density Correction Factor ²	* * * * * * * * * * * * * * * * * * * *	(g/cm³)/°C	/ /	(g/cm³)/°C	ASTM D1250
Fire Point, COC ²	493		256		ASTM D92
Evaporation Loss ² (302°F (150°C), 22.0 hr) 1.6	wt%	1.6	wt%	ASTM D972
Vapor Pressure ² (302°F (150°C))		mm Hg	0.2	mm Hg	ASTM D2879
Performance	Typical Value	(English)	Typical Value	(SI)	Test Based On
Dielectric Constant ² (77°F (25°C))	2.10	(Linguistri)	2.10	(31)	ASTM D924
	43.6	لا\\	43.6	k)/	ASTM D877
Dielectric Strength ²					
High-Temp. High-Shear Viscosity ²	1.46	СР	1.46	СР	ASTM D5481
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On
Aniline Point ²	246.6	°F	119.2	°C	ASTM D611

Effective Date: 07/30/2015 ExxonMobil Page: 1 of 2



SpectraSyn™ 4
Polyalphaolefin (PAO) Fluid

Additional Information

Technical White Mineral Oil, 21 CFR 178.3620(b)

National Sanitation Foundation (NSF), 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

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

©2019 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com