Ex_xonMobil

SpectraSyn™ 40 Polyalphaolefin (PAO) Fluid

Product Description

SpectraSynTM High Viscosity Polyalphaolefin (PAO) basestocks feature low temperature properties (pour point and viscosity), low volatility, and improved thermal stability. SpectraSynTM High Viscosity PAO products high viscosity indices translate into improved flow at low temperatures and increased film thickness at high temperatures. SpectraSynTM High Viscosity PAO basestocks are particularly suited for industrial oils requiring high stability under extreme operating conditions. SpectraSynTM High Viscosity PAO products are frequently used in conjunction with lower viscosity fluids (PAO, mineral oils) as a viscosity booster to achieve a wide range of ISO VG industrial and automotive gear oils.

General					
Availability ¹	 Africa & Middle East Asia Pacific		Europe Latin America	North America	
Revision Date	• 08/10/2009				
Basics	Typical Value	(English)	Typical Value	(SI)	Test Based On
Specific Gravity (60.1°F (15.6°C))	0.850		0.850		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)	39.0	cSt	39.0	mm²/s	
104°F (40°C)	396	cSt	396	mm²/s	
32°F (0°C) ²	4840	cSt	4840	mm²/s	
-4°F (-20°C) ²	40500	cSt	40500	mm²/s	
Viscosity Index	147		147		ASTM D2270
Pour Point	-33	°F	-36	°C	ASTM D5950/D97
Flash Point, COC	538	°F	281	°C	ASTM D92
Water	< 50	ppm	< 50	ppm	ASTM D6304
Refractive Index ² (77°F (25°C))	1.4680		1.4680		ASTM D1218
Total Acid Number	< 0.10	mg KOH/g	< 0.10	mg KOH/g	ASTM D974 (mod
Flow	Typical Value	(English)	Typical Value	(SI)	Test Based On
Brookfield Viscosity ² (-15°F (-26°C))	102000	cP	102000	cP	ASTM D2983
Surface Tension ² (75°F (24°C))	31.5	dyne/cm	31.5	dyne/cm	ASTM D1331A
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density Correction Factor ²	6.05E-4	(g/cm ³)/°C	6.05E-4	(g/cm ³)/°C	ASTM D1250
Fire Point, COC ²	604	°F	318	°C	ASTM D92
Evaporation Loss ² (302°F (150°C), 22.0 hr)	0.4	wt%	0.4	wt%	ASTM D972
Evaporation Loss ² (401°F (205°C), 6.5 hr)	2.5	wt%	2.5	wt%	ASTM D972 (mod
Vapor Pressure ² (392°F (200°C))	0.9	mm Hg	0.9	mm Hg	ASTM D2879
Performance	Typical Value	(English)	Typical Value	(SI)	Test Based On
Dielectric Constant ² (77°F (25°C))	2.15		2.15		ASTM D924
Dielectric Strength ²	38.9	kV	38.9	kV	ASTM D877
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On
Aniline Point ²	319.3		159.6	× /	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

Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

ExonMobil

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