

# SpectraSyn™ 40 Polyalphaolefin (PAO) Fluid

## **Product Description**

SpectraSyn™ High Viscosity Polyalphaolefin (PAO) basestocks feature low temperature properties (pour point and viscosity), low volatility, and improved thermal stability. SpectraSyn™ High Viscosity PAO products high viscosity indices translate into improved flow at low temperatures and increased film thickness at high temperatures. SpectraSyn™ High Viscosity PAO basestocks are particularly suited for industrial oils requiring high stability under extreme operating conditions. SpectraSyn™ 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.

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	• 07/01/2019				
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) <sup>2</sup>	4840	cSt	4840	mm²/s	
-4°F (-20°C) <sup>2</sup>	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 <sup>2</sup> (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	(Enalish)	Typical Value	(SI)	Test Based On
Brookfield Viscosity <sup>2</sup> (-15°F (-26°C))	102000	. 5	102000		ASTM D2983
Surface Tension <sup>2</sup> (75°F (24°C))	31.5	dyne/cm	31.5	dyne/cm	ASTM D1331A
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Thermal	Typical Value		Typical Value	(SI) (g/cm <sup>3</sup> )/°C	Test Based On
Density Correction Factor <sup>2</sup>		(g/cm³)/°C		.5	ASTM D1250
Fire Point, COC <sup>2</sup>	604		318		ASTM D92
Evaporation Loss <sup>2</sup> (302°F (150°C), 22.0 h	,	wt%		wt%	ASTM D972
Evaporation Loss <sup>2</sup> (401°F (205°C), 6.5 hr	,	wt%		wt%	ASTM D972 (mod
Vapor Pressure <sup>2</sup> (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 <sup>2</sup> (77°F (25°C))	2.15		2.15		ASTM D924
Dielectric Strength <sup>2</sup>	38.9	kV	38.9	kV	ASTM D877
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On
Aniline Point <sup>2</sup>	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.

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### 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.

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

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<sup>&</sup>lt;sup>2</sup> Single sample or two sample average determinations