

# SpectraSyn Plus™ 3.6

## Advanced Polyalphaolefin (PAO) Fluid

### Product Description

SpectraSyn Plus™ Advanced Polyalphaolefin (PAO) provide an optimal combination of volatility and low-temperature fluidity. SpectraSyn Plus™ Advanced PAO products viscosity indices translate into improved flow at low temperatures and increased film thickness at high temperatures. SpectraSyn Plus™ Advanced PAO provide superior lubrication as the primary basestocks for synthetic lubricants used in passenger car engines, heavy-duty diesel engines, transmissions, and a variety of industrial applications. SpectraSyn Plus™ Advanced PAO can be used for upgrading mineral oil or Group III basestocks for improved low temperature and volatility performance.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>▪ Africa &amp; Middle East</li> <li>▪ Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>▪ Europe</li> <li>▪ Latin America</li> </ul>	<ul style="list-style-type: none"> <li>▪ North America</li> </ul>
Revision Date	▪ 06/13/2006		

Basics	Typical Value (English)	Typical Value (SI)	Test Based On
Specific Gravity <sup>2</sup> (60.1°F (15.6°C))	0.816	0.816	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)	3.6 cSt	3.6 mm <sup>2</sup> /s	
104°F (40°C)	15.4 cSt	15.4 mm <sup>2</sup> /s	
-40°F (-40°C)	2000 cSt	2000 mm <sup>2</sup> /s	
Viscosity Index	120	120	ASTM D2270
Pour Point	< -85 °F	< -65 °C	ASTM D5950/D97
Flash Point, COC	435 °F	224 °C	ASTM D92
Noack Volatility <sup>2</sup>	< 17.0 wt%	< 17.0 wt%	ASTM D5800/DIN 51581
Water	< 50 ppm	< 50 ppm	ASTM D6304
Refractive Index <sup>2</sup> (77°F (25°C))	1.4530	1.4530	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 <sup>2</sup>			ASTM D4684
-40°F (-40°C)	2060 cP	2060 cP	
Brookfield Viscosity <sup>2</sup> (-40°F (-40°C))	2117 cP	2117 cP	ASTM D2983
Cold Cranking Simulator <sup>2</sup>			ASTM D5293
-22°F (-30°C)	660 cP	660 cP	
-31°F (-35°C)	1050 cP	1050 cP	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Density Correction Factor <sup>3</sup>	6.48E-4 (g/cm <sup>3</sup> )/°C	6.48E-4 (g/cm <sup>3</sup> )/°C	ASTM D1250
Fire Point, COC <sup>2</sup>	478 °F	248 °C	ASTM D92
Evaporation Loss <sup>2</sup> (401°F (205°C), 6.5 hr)	22.6 wt%	22.6 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))	2.09	2.09	ASTM D924
Dielectric Strength <sup>3</sup>	41.5 kV	41.5 kV	ASTM D877
High-Temp. High-Shear Viscosity <sup>2</sup>	1.14 cP	1.14 cP	ASTM D5481

Solubility	Typical Value (English)	Typical Value (SI)	Test Based On
Aniline Point <sup>3</sup>	246.2 °F	119.0 °C	ASTM D611

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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.

<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](http://www.exxonmobilchemical.com/ContactUs)

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