

PureSyn™ 300

Hydrogenated Poly(C8/12 Olefin)

Product Description

ExxonMobil PureSyn™ PAO (polyalphaolefin) are unique classes of premium fluids whose features set them apart from other fluids such as silicones, mineral oils, petrolatum and polybutene. PureSyn™ PAO is a bright and clear, high purity fluid that can be characterized as non-comedogenic and non-irritating. PureSyn™ PAO are exceptionally stable in high and low pH systems.

General

Availability ¹	<ul style="list-style-type: none"> ▪ Africa & Middle East ▪ Asia Pacific 	<ul style="list-style-type: none"> ▪ Europe ▪ Latin America 	<ul style="list-style-type: none"> ▪ North America
Revision Date	▪ 08/15/2020		

Basics	Typical Value (English)	Typical Value (SI)	Test Based On
Specific Gravity (60.0°F (15.6°C))	0.849	0.849	ASTM D4052
Color	< 0.5	< 0.5	ASTM D1500/ D6045
Kinematic Viscosity			ASTM D445
212°F (100°C)	303 cSt	303 mm ² /s	
104°F (40°C)	3358 cSt	3358 mm ² /s	
Flash Point, COC	547 °F	286 °C	ASTM D92
Refractive Index (77°F (25°C))	1.4683	1.4683	ASTM D1218
Total Acid Number	< 0.10 mg KOH/g	< 0.10 mg KOH/g	ASTM D974

Flow	Typical Value (English)	Typical Value (SI)	Test Based On
Brookfield Viscosity (77°F (25°C))	752000 cP	752000 cP	ASTM D2983
Surface Tension (75°F (24°C))	34.4 dyne/cm	34.4 dyne/cm	ASTM D1331A

Solubility	Typical Value (English)	Typical Value (SI)	Test Based On
Solubility Parameter ²	8.38 $\sqrt{(\text{cal}/\text{cm}^3)}$	8.38 $\sqrt{(\text{cal}/\text{cm}^3)}$	Calculated

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 Calculated Solubility Parameter

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

©2025 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 Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.