

# PureSyn™ 4

## Polyalphaolefin (PAO) Fluid

### Product Description

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

### 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             | 07/01/2019   |   |   |

| Basics                             | Typical Value (English) | Typical Value (SI)      | Test Based On   |
|------------------------------------|-------------------------|-------------------------|-----------------|
| Specific Gravity (60.0°F (15.6°C)) | 0.820                   | 0.820                   | ASTM D4052      |
| Color                              | < 0.5                   | < 0.5                   | ASTM D1500      |
| Kinematic Viscosity                |                         |                         | ASTM D445       |
| 212°F (100°C)                      | 4.1 cSt                 | 4.1 mm <sup>2</sup> /s  |                 |
| 104°F (40°C)                       | 18.0 cSt                | 18.0 mm <sup>2</sup> /s |                 |
| Flash Point, COC                   | 430 °F                  | 221 °C                  | ASTM D92        |
| Refractive Index (77°F (25°C))     | 1.4535                  | 1.4535                  | ASTM D1218      |
| Total Acid Number                  | < 0.01 mg KOH/g         | < 0.01 mg KOH/g         | ASTM D974 (mod) |

| Flow                               | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------------|-------------------------|--------------------|---------------|
| Brookfield Viscosity (77°F (25°C)) | 26 cP                   | 26 cP              | ASTM D2983    |
| Surface Tension (75°F (24°C))      | 29.1 dyne/cm            | 29.1 dyne/cm       | ASTM D1331A   |

| Solubility                        | Typical Value (English)                | Typical Value (SI)                     | Test Based On |
|-----------------------------------|--|--|---------------|
| Solubility Parameter <sup>2</sup> | 8.09 $\sqrt{(\text{cal}/\text{cm}^3)}$ | 8.09 $\sqrt{(\text{cal}/\text{cm}^3)}$ | Calculated    |

### Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

### Notes

Typical properties: these are not to be construed as specifications.

<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> Calculated Solubility Parameter

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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