



Syndustrial® Turbine Oil

Syndustrial Turbine Oil is a premium quality synthetic lubricant developed to meet the severe lubrication requirements of aero-derivative stationary and marine gas turbines.

Syndustrial Turbine Oil is formulated with synthetic polyol ester (POE) base oils and select ashless additives to provide outstanding performance and protection in gas turbines. It has outstanding oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life. It has high load-carrying capacity and excellent affinity for metal surfaces to protect against wear. It has natural detergency for improved cleanliness, and protects against rust and corrosion. It also has excellent low-temperature properties for use over a wide temperature range.

Applications

- Aero-derivative gas turbines

Syndustrial Turbine Oil meets the requirements of the following industry and OEM specifications:

- Allison 501-k, 571-k
- General Electric GEK 97310, LM Series 500 to 6000
- Rolls-Royce RB211, Avon, Olympus, Spey and Tyne turbines
- Solar Turbines ES9-224, Revision W, Class III (Synthesized Ester) Turbine Oil
- U.S. Military MIL-PRF-23699F, Class STD Synthetic Turbine Oil

Features/Benefits

- Outstanding oxidation resistance and thermal stability at high temperatures
- Excellent low-temperature fluidity
- High load-carrying capacity
- Protects against rust and corrosion
- Natural detergency
- High flash point for reduced fire/explosion hazard
- Extended service intervals compared with conventional mineral oil-based lubricants

Note: Syndustrial Turbine Oil can be used as top-off for existing competitive polyol ester turbine oils of the same quality. For information on compatibility with seals, paints and plastics, please call our Technical Support Hotline.

**Synthetic
Polyol Ester
Lubricant For
Land-Based
Industrial &
Marine Gas
Turbines**

CONTACT INFORMATION

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Lubricants.com**

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1-800-368-7128

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**lubricants@
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Syndustrial® Turbine Oil

Typical Properties

| | |
|---------------------------------------|--------------|
| ISO Grade | 22/32 |
| Specific Gravity @ 60°F | 0.994 |
| Density, lbs/gal @ 60°F | 8.28 |
| Color, ASTM D1500 | L 4.0 |
| Flash Point (COC), °C (°F) | 266 (511) |
| Pour Point, °C (°F) | -60 (-76) |
| Viscosity, | |
| cSt @ 40°C | 25.5 |
| cSt @ 100°C | 5.1 |
| SUS @ 100°F | 132 |
| SUS @ 210°F | 43 |
| Viscosity Index | 132 |
| Acid Number, SAE ARP 5088, mg KOH/g | 0.18 |
| Copper Corrosion, ASTM D130 | 1a |
| Foam Test, ASTM D892, | |
| Sequence I, ml | 5/0 |
| Sequence II, ml | 5/0 |
| Sequence III, ml | 10/0 |
| Particle Contamination, NAS 1639, max | 6 |
| Rust Test, ASTM D665 A&B | Pass |

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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