



## Syndustrial® Turbine Oil

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

Syndustrial Turbine Oil is available in one intermediate viscosity grade: ISO 22/32. It 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 help minimize deposit formation and provide long service life. It has high load-carrying capacity and excellent affinity to 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 performance requirements of:

- Allison 501-k, 571-k
- General Electric GEK 97310, LM Series 500 to 6000
- Rolls-Royce RB211, Avon, Olympus, Spey and Tyne turbines
- Solar ES9-224 Rev. U, Type III Class CI Synthetic Turbine Oil
- U.S. Military MIL-PRF-23699F

### **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 to conventional mineral oil-based lubricants

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

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

### **Contact Information**

**U.S. Customer  
Service:  
1-800-822-6457**

**U.S. Technical  
Services Hot Line:  
1-800-766-0050**

**International:  
+1-832-486-3363**

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## Syndustrial® Turbine Oil

### Typical Properties

ISO Grade	22/32
Density, g/cm <sup>3</sup> @ 15.6°C (60°F)	0.994
Density, lbs/gal @ 15.6°C (60°F)	8.28
Color, ASTM D1500	3.5
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	131
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://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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