

PRODUCT INFORMATION

# ECOSE<sup>®</sup> PREMIUM TURBINE OILS

**ECOSE<sup>®</sup> Premium Turbine Oils** are formulated with highly refined base stocks that are processed by modern hydrotreating methods and a proprietary additive system specifically designed for use in turbines where resistance to high temperature oxidation and extended service life is essential.

**FEATURES AND BENEFITS:**

The superior oxidation resistance of this product line is shown in the ASTM D-943 test with typical results of over 10,000 hours. **ECOSE<sup>®</sup> Premium Turbine Oils** provide excellent resistance to foaming and offers excellent air-release characteristics. Additionally, these oils provide the following benefits:

- Superior oxidation stability for long service life
- Rapid water separating characteristics to minimize emulsions
- Fast air release minimizes possibility of pump cavitation
- High VI with excellent lubricating performance
- Rust and corrosion protection
- Minimization of sludge and varnish formations

**APPLICATIONS:**

**ECOSE<sup>®</sup> Premium Turbine Oils** are designed for lubricating gas, steam, and hydroelectric turbines and for central station turbo-generators, which are precision machined and require close tolerances for intricately balanced mechanisms. Additionally, these oils are very well suited as air line lubricant for air tools, rotary air and gas compressors, and gearing that is lightly loaded.

Recommended for:

- |   |                            |
|---|----------------------------|
| • General Electric GEK 32568F               | • DIN 51515; 51524, Part 1 |
| • General Electric GEK 107395               | • US Steel 126             |
| • General Electric GEK 120498               | • Solar ES9-244W           |
| • AFNOR and Denison Filterability Test Pass | • MIL-L-17672D             |
| • British Standard 489                      | • Denison HF-1             |

**AVAILABILITY:**

**ECOSE<sup>®</sup> Premium Turbine Oils** are available throughout Nu-Tier Brands' marketing area. Your Nu-Tier representative can provide specific information. Need additional information? Call Nu-Tier Brands @ 1-877-771-LUBE (5823) or visit [Nu-tierbrands.com](http://Nu-tierbrands.com).

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**ECOSE® Premium Turbine Oils**

**Typical Properties**

ISO Viscosity Grade		32	46	68	100	150
<b>Product Code</b>	<b>Test Method</b>	534101	534103	534105	534107	534109
Viscosity, cSt @ 40°C	ASTM D-445	32	46	68	100	148
Viscosity, cSt @ 100°C	ASTM D-445	5.5	6.9	8.8	11.3	14.6
Viscosity Index	ASTM D-2270	108	105	102	99	97
Air Release, minutes	ASTM D-3427	3.0	3.0	4.0	4.0	4.0
Color	ASTM D-1500	L1.0	L1.0	L1.0	L1.5	L1.5
Pour Point, °F (°C) (Max.)	ASTM D-5949	-40 (-40)	-40 (-40)	-34 (-29)	-10 (-23)	-5 (-21)
Flash Point, COC, °F (°C)	ASTM D-92	410 (210)	430 (218)	440 (227)	455 (238)	470 (243)
Rust Test	ASTM D-665 A&B	Pass (1)	Pass (1)	Pass (1)	Pass (1)	Pass (2)
Oxidation Stability, hours	ASTM D-943	10,000+	10,000+	10,000+	5,000+	3,000+
Gravity, API	ASTM D-4052	32.0	31.7	31.5	31.4	31.3
Density, lbs/gal	Calculated	7.10	7.21	7.23	7.23	7.24

**Values shown are typical values only and do not constitute a specification. Data shown is subject to change without notice. Consult OEM for application requirements.**

- (1) Procedure A and B
- (2) Procedure A