



**TURBINEGARD**  
R&O TURBINE OIL

Turbine Grade Ashless Lubricant  
For Long Service Life



REV: 06.02.2024



**DESCRIPTION**

TurbineGard™ R&O Turbine Lubricants are premium quality oils designed for use in hydroelectric and steam turbines generating power in a wide variety of applications. These oils may also be used in industrial gear boxes where non-EP, ashless gear oils are required. TurbineGard R&O Turbine Lubricants offer extended service life with high resistance to oxidation and thermal breakdown. Excellent water separation properties and protection against rust and oxidation.

**BENEFITS**

- ▣ Long lubricant life provided by excellent thermal and oxidation stability
- ▣ Excellent demulsibility
- ▣ Protects against rust in distilled, tap, and salt waters
- ▣ Reduced noise and vibration
- ▣ Turbine quality ashless formulation

**APPLICATION**

- Industrial turbines providing electrical power
- Rust and oxidation hydraulic fluid
- Industrial circulating oil
- Reciprocating compressors
- Vacuum pumps
- Electric motor bearings

**PERFORMANCE**

**Performance Levels**

- Denison: HF-1
- General Electric: GEK 28143B, GEK 46506D
- Afnor: NFE 48-600HL
- DIN: 51515, 51524 Part 1
- Cincinnati: P-38, P-54, P-55
- AIST/U.S. Steel: AIST 126
- Solar Turbines: ES9-224
- Alstom: HTGD 90117
- Siemes: TLV 9013 04

TYPICAL PROPERTIES	METHOD	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220
Specific Gravity at 15.6°C	D-4052	0.8544	0.8608	0.8609	0.8663	0.8681	0.8769	0.8868
Viscosity, cSt at 40°C	D-445	22.09	32.49	46.21	66.19	100.52	114.23	212.72
Viscosity, cSt at 100°C	D-445	4.43	5.91	7.26	9.20	12.07	15.38	19.36
Viscosity Index	D-2270	111	129	118	116	111	109	103
Flash Point, °C	D-92	214 (417)	222 (432)	216 (421)	218 (424)	220 (428)	280 (536)	256 (493)
Pour Point, °C	D-97	-26 (-15)	-26 (-15)	-24 (-11)	-26 (-15)	-25 (-13)	-24 (-11)	-15 (5)
Neutralization Number	D-943	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
Turbine Stability, Hrs.	TOST	+5000	+5000	+5000	+5000	+5000	+5000	+5000
ML Reference No.		573933	573941	573950	573968	573976	573335	590995



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**NOTE:**

The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice. For additional qualifications, please contact Martin Lubricants Technical Service Department.

**Health And Safety Information** See separate Safety Data Sheets available on request.

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