



# TURBINEGARD R&O TURBINE OIL

Turbine Grade Ashless Lubricant  
For Long Service Life



REV: 01.20.2021



## 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
- Alstom: HTGD 90117
- Siemens: 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	32.9	46.21	66.19	100.52	148.15	212.72
Viscosity, cSt at 100°C	D-445	4.43	5.60	7.01	8.91	12.07	15.38	19.36
Viscosity Index	D-2270	111	107	109	109	111	106	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