



# TURBINE OIL 68

## Product Description:

**TURBINE OIL 68** is a supreme performance turbine oil specially designed for use in geared and non-geared steam turbines, gas turbines and combined cycle gas turbines (CCGT) including the gas turbines operating at high temperatures.

**TURBINE OIL 68** is based on high quality virgin mineral base oil in combination with a unique additive package to ensure the following properties:

- Outstanding thermal and oxidation stability.
- Prevents sludge formation, controls deposits and minimizes oil degradation.
- Superior anti-wear property and load carrying capability provide excellent protection for geared turbines.
- Excellent water separation capability resists formation of emulsion and leads to easy removal of excess water from the lubrication system.
- Effective rust and corrosion inhibitors provide long term protection to critical system components.
- Good air release properties and foam control.

**TURBINE OIL 68** meets the following performance criteria:

**ASTM D4304 Type I**  
**Alstom HTGD 90117 W (non EP)**  
**GEK 27070,32568J,46506E,107395A**  
**Solar Turbines ES9-224**

**DIN 51515-1 (TD)**  
**Fives Cincinnati P-54**  
**Siemens TLV 9013 04 & 05 (non EP)**  
**AIST 125**

**DIN 51515-2 (TG)**  
**AGMA 9005-E02(R&O)**



Property	Unit	Test Method	Typical Value
ISO VG Grade		ISO 3448	68
Density@15°C	kg/m <sup>3</sup>	ASTM D4052	864
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	70
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	9.5
Viscosity Index		ASTM D2270	113
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-27
Total Acid Number	mgKOH/g	ASTM D664	0.1
Copper Corrosion		ASTM D130	1b
Water separability @54°C		ASTM D1401	Pass
FZG, Fail Load Stage		DIN 51534-2	10
Oil Stability Test (TOST)	Hrs	ASTM D943	>10.000

**Product Nr:** 44530  
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**Date Issued:** 18-12-2019  
**Revision nr:** 02