



## Turbine Oil 46

Product Code: 77820

High performance turbine oil ISO VG 46

**Turbine Oil 46** 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 46** is based on high quality base oil in combination with an 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 46** exceeds the following performance criteria:

ASTM D4304 Type I	DIN 51515-1 (TD)	DIN 51515-2 (TG)
ALSTOM HTGD 90117 Z	GEK 107395A/27070/28143A/32568J/46506E	
Solar ES 9-224	Siemens TLV 9013 05 (EP)	GB 11120-2011 L-TSA
GB 11120-2011 L-TGA	ISO 8068:2006(E) L-TSA	ISO 8068:2006(E) L-TGA
BS 489:1999		

### Typical Analysis

Properties	Unit	Method	Typical Value
ISO VG Grade		ISO 3448	46
Density @15°C	kg/m <sup>3</sup>	ASTM D4052	857
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	47.2
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	7.3
Viscosity Index		ASTM D2270	97
Flash Point COC	°C	ASTM D92	>213
Pour Point	°C	ASTM D7346	-33
Total Acid Number	mgKOH/g	ASTM D974	0.1
Copper Corrosion		ASTM D130	1A
Air Release Value @50°C	Minutes	ASTM D3427	5
Water separability @54°C	Minutes	ASTM D1401	5
Oil Stability Test (TOST)	Hrs	ASTM D943	>10.000

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