



## PRODUCT DATA SHEET

### EKO TURB R&O OIL Turbine lubricants

#### DESCRIPTION

The EKO TURB R&O OIL lubricant series includes high quality ashless lubricants suitable for the lubrication of modern gas and steam turbines. They are produced from selected base oils and latest technology additives that impart to the lubricants excellent resistance to oxidation and thermal decomposition.

#### SPECIFICATIONS

DIN 51515 Part 1 (L-TD), DIN 51524 Part 1 HL, ASTM D 4304 Type I, BS 489 (CIGRE), ALSTOM HTGD 90117, CEGB STANDARD 207001, GENERAL ELECTRIC GEK 32568F, GEK 107395A, GEK 28143A, GEK 46506D, SIEMENS TLV 9013 04.

#### APPLICATIONS

- They are suitable for the lubrication of industrial and marine steam turbines and industrial gas turbines.
- They are suitable for high temperature circulating systems that operate for long periods without lubricant change.
- They are suitable for a variety of applications (compressors, gearboxes, hydraulic systems, bearings, etc.) that require R&O lubricant with high oxidation stability and very good corrosion and rust performance.

#### ADVANTAGES

- Excellent resistance to oxidation and high thermal stability.
- Very low tendency to form insoluble products (sludge and varnish).
- Excellent compatibility with water.
- Very good protection against corrosion and rust.



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### TYPICAL CHARACTERISTICS

Properties	Methods ASTM	Units	EKO TURB R&O OIL 32	EKO TURB R&O OIL 46	EKO TURB R&O OIL 68	EKO TURB R&O OIL 100
ISO Viscosity Grade	-	-	32	46	68	100
Density, 15°C	D4052	g/ml	0.875	0.878	0.884	0.886
Kinematic Viscosity, 40°C	D445	cSt	30.80	44.69	66.52	98.1
Kinematic Viscosity, 100°C	D445	cSt	5.3	6.7	8.7	11.1
Viscosity Index (VI)	D2270	-	101	101	102	98
Foaming Characteristics, Tendency (Seq. I/II/III)	D892	ml	0/0/0	0/0/0	0/0/0	0/0/0
Foaming Characteristics, Stability (Seq. I/II/III)	D892	ml	0/0/0	0/0/0	0/0/0	0/0/0
Water Separability, time to 40-40-0 (ml)	D1401	minutes	10	10	10	15
Acid Number, TAN	D664	mg KOH/g	0.10	0.10	0.10	0.10
Pour Point	D5950	°C	-24	-24	-24	-18
Flash Point, COC	D92	°C	222	234	246	228
Air Release, 50°C	D3427	minutes	2.8	4.1	5.1	8.2
Copper Corrosion, 3 hours @ 100°C	D130	-	1a	1a	1a	1a
Rust-Preventing Characteristics	D665 A/B	Rating	Pass/Pass			
Oxidation Stability-TOST hours to TAN 2,0	D943	hours	4000	4000	4000	4000
Oxidation Stability-RPVOT	D2272	minutes	>700	990	>500	>500

### HEALTH AND SAFETY

Protect the environment while disposing of used product. Used lubricants should be collected at specific points to ensure they do not pollute the environment. Do not mix with solvents, brake fluids, antifreeze fluids and water, to allow for proper handling.

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This data sheet provides basic information on the product as at the date of drafting. For further information regarding applications, please contact EKO ABEE Technical Support, tel. +30 210 5509 511.  
Advice on safe handling is provided in the Safety Data Sheet.