



## **CHALLOILS TURBINOIL**

*Lubricant for Turbines*

### **Product Description:**

The TURBINOIL series is made with very high quality mineral bases able to ensure absolutely outstanding performance in terms of demulsibility (ability to separate the water) and air separation.

And it's recommended for all types of gas turbines and steam with both gears that without. Also it can be employed on the combined cycle turbines but, according to what is recommended by the manufacturers of such machines relatively to the cleaning requirements, subject to a final filtration of the product after the filling of the turbine. Finally, given the strong anti-wear additive zinc-free, can be used in rolling and sliding bearings and uses circulating in the available viscosities.

### **Features:**

- Excellent low temperature fluidity
- Good viscosity index.
- Excellent compatibility with metals and the seals normally used in the turbines.

### **Specifications and Approval:**

Exceeds requirements: **DIN 51515-1 L-TD/DIN 51515-2 L-TG, Siemens TLV 9013 04, BS 489, GEK 32568F/28143A MIL-L-17672 D, CEBG 207001, Brown Boveri HTGD 90117, Alstom HTGD 90 117 V0001 S Solar ES 9-224, US Steel 120, Westinghouse Electric Corp. Turbine Oil Spec.**

### **Typical properties: CHALLOILS Series TURBINOIL**

ISO Viscosity Grade	32	46	68	100
Viscosity ASTM D-445				
cSt @ 40°C	29 – 34	42,5 – 48	63 – 70	92 – 103
cSt @ 100°C	5 – 5,9	6,2 – 7,3	8 – 9,4	10,5 – 12
Viscosity Index ASTM D-2270	105	100	100	100
Density @ 15°C, Kg/l, ASTM D-1298	0,865	0,870	0,875	0,880
Pour Point, °C, ASTM D-97	-21	-21	-15	-15
Flash Point, °C, ASTM D-92	>185	>185	>200	>210
Corrosion of Iron, ASTM D-665 A/B	Passa	Passa	Passa	Passa
Corrosion of Copper, ASTM D-130	1b	1b	1b	1b
Water Separation at 54°C, Kg, ASTM D-1401	Passa	Passa	Passa	Passa
Test air release at 50°C, ASTM D-3427	Passa	Passa	Passa	Passa
Test FZG, DIN 51354-2	>10	>10	>10	>10
Stability test, hrs, ASTM D-943	10000	10000	10000	10000

### **Health and Safety:**

The data related to health, safety and environmental protection are provided in the material safety data sheets.

*The above figures are those relating to normal manufacturing tolerances and do not constitute a specification.*

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