Product Name: Turbine Oil
Application: Steam and gas turbine
ISO viscosity grade: 32, 46, 68
Quality: Synthetic
Recommended for: Stationary gas turbines, steam turbines and also in electrical or in driven by steam machines, such as generators, compressors, pumps and gearboxes.
Drain Interval: Between 4,000 to 10,000 Operation hours

Product Overview

Turbine Oil is a high-performance lubricant designed for steam and gas turbine applications. It is formulated using hydrotreated base oils and advanced zinc-free ashless additives, providing excellent oxidation stability, corrosion protection, and superior demulsibility. The oil also features strong antifoaming and air release properties, ensuring reliable turbine performance in demanding industrial environments.

Application

Turbine Oil is suitable for use in:

- Stationary gas and steam turbines.
- Electrical generators and compressors.
- Pumps, gearboxes, and hydraulic systems.
- Other industrial applications requiring high-quality turbine oils.

Performance Benefits

- **Outstanding Oxidation Stability:** Extends oil life and reduces maintenance costs.
- **Excellent Air Release Properties:** Prevents air entrainment and ensures optimal lubrication.
- **Superior Antifoaming Performance:** Minimizes foam formation and reduces oil leakage.
- **Exceptional Water Separation Properties:** Ensures easy removal of water contamination, protecting against rust and corrosion.
- **Rust and Corrosion Protection:** Enhances the longevity of critical components.

Meets & Approvals

Turbine Oil meets or exceeds the following specifications:

- DIN 51515 TEIL 1 (L-TD), TEIL 2 (L-TG)
- TLV 901304
- MIL-L-17672 D
- British Standard BS 489
- General Electric GEK 32568 A & C
- CEGB Standard 207001
- Brown Boveri HTGD 90117
- U.S. Steel 120
- Westinghouse Electric Corp. Turbine Oil Spec

- ALSTOM HTGD 90117 V0001 S
- DIN 51524-1 / 2

Typical Properties

Property	Method	Unit	SCOM TURBINE OIL
ISO Viscosity Grade	-	-	32 / 46 / 68
Kinematic Viscosity @ 40°C	ASTM D7042	cSt	32 / 46 / 68
Kinematic Viscosity @ 100°C	ASTM D7042	cSt	5.44 / 6.84 / 9.13
Viscosity Index	ASTM D2270	-	103 / 102 / 109
Density @ 15°C	ASTM D4052	g/cm³	TBR / TBR / TBR
Flash Point (min)	ASTM D92	°C	220 / 230 / 242
Pour Point (max)	ASTM D97	°C	-21 / -21 / -30
Total Acid Number (TAN)	ISO 6618	mgKOH/g	<0.2
Rust Preventing Characteristics	ISO 7120	-	B
Copper Corrosion	ISO 2106	-	1a
Emulsion Characteristics (40-37-3)	ISO 6614	min	10 / 15 / 15
Air Release to 0.2%	ISO 9120	min	2
Foaming at 50°C	ISO 6247	ml	50
Remaining Foam after 1 min rest	ISO 6247	ml	0
Water Content	Karl Fischer	ppm	60
Zinc Content	ASTM D4951	ppm	<10
Oxidation Stability	ISO 4263	h	2700

Health, Safety, and Environmental Guidelines:

- **Health & Safety:** Prolonged and repeated contact with oil may cause skin disorders. Avoid direct contact and wash immediately with soap and water if exposed. Refer to the SDS for more details.
- **Environmental Protection:** Do not dispose of used oil in drains or the environment. Dispose of it at an authorized collection point following local regulations.
- **Storage:** Store under cover and avoid exposure to extreme temperatures. Drums should be stored horizontally to prevent water contamination and maintain label integrity.