cyclon® ENGINEERED TO PERFORM

TECHNICAL PRODUCT SHEET

TURBINE

ISO 32, 46, 68, 100

DESCRIPTION

TURBINE series consists of premium-quality lubricants for turbines and turbo-compressors where a high-quality mineral-based oil with superior oxidation stability is required. The use of carefully selected hydrotreated base oils, combined with a specially balanced additive system, provides excellent resistance to oxidation, effective protection against rust and corrosion, and very good demulsification characteristics. In addition, the formulation ensures low foaming tendency and reliable air release during service, helping to maintain clean systems, stable operation, and extended lubricant and equipment service life.

APPLICATIONS

TURBINE series is suitable for the lubrication of steam turbines and medium-duty gas turbines, as well as gearboxes, auxiliary turbine equipment, and control systems. The lubricants may also be used in a wide range of industrial applications including rotary and dynamic air compressors, centrifugal pumps, vacuum pumps, and geared pumps operating under low pressure conditions (below 100 psi) and at low rotational speeds (below 1200 rpm). They are specifically recommended for systems requiring reliable rust and oxidation (R&O) protection, effective water separation, and clean operation, always in accordance with equipment manufacturers' recommendations.

SPECIFICATIONS

DIN	51515 LTD	U.S. Military	MIL-L17672D
ISO	6743-5 (ISO-L-TGA, ISO-L-TSA)	Siemens	TLV 9013 04
AGMA	R&O	B.S.	489

PROPERTIES

TURBINE series provide superb protection against rust and oxidation, helping to safeguard system components and extend equipment and oil service life. They offer very good demulsification and rapid de-aeration, ensuring effective water separation and stable lubrication under operating conditions. Excellent thermal and oxidative stability further contribute to clean system performance and reliable operation at elevated temperatures.

BENEFITS

TUEBINE series deliver long service life without the formation of acids or sludge, helping to maintain superior system cleanliness. They enable rapid separation of water entrained in the system, supporting efficient lubrication and stable operation. By minimizing deposit build-up, the formulation ensures maximum lubrication efficiency, reduced maintenance requirements, and reliable performance over extended service intervals.

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PHYSICAL-CHEMICAL CHARACTERISTICS

TURBINE	METHOD	ISO 32	ISO 46	ISO 68	ISO 100
Density at 15°C, g/cm^3	ASTM D4052	0.867	0.872	0.879	0.885
Viscosity, Kinematic (cSt) 40°C	ASTM D445	32	46	68	100
Viscosity, Kinematic (cSt) 100°C	ASTM D445	5.4	6.8	8.6	11.1
Viscosity index	ASTM D2270	105	102	97	95
Flash point, COC, °C	ASTM D92	210	228	240	256
Pour point, °C	ASTM D97	-15	-15	-12	-12
Acid Number, mgKOH/g	ASTM D 974	<0.2	<0.2	<0.2	<0.2
Copper corrosion	ASTM D 130	1a	1a	1a	1a
Foam Tendency / Stability, ml Sequence I Sequence II Sequence III	ASTM D892	 10 / 0 10 / 0 10 / 0	 10 / 0 10 / 0 10 / 0	 10 / 0 10 / 0 10 / 0	 20 / 0 20 / 0 20 / 0
Oxidation stability (RPVOT), min	ASTM D2272	840	840	840	845
Oxidation stability (TOST), hrs	ASTM D 943	>3,500	>3,500	-	-
Demulsibility, min.	ASTM D1401	5	10	10	20
Air release, min	ASTM D3427	3.5	3.8	4.0	6.5
Rust Test	ASTM D 665	Pass	Pass	Pass	Pass

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.

HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).

USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.