Turbex T 46

High-Performance Industrial Steam & Gas Turbine Oil

Description

MAXFLUID Turbex T 46 is a premium-quality industrial turbine oil developed by MAXFLUID for the lubrication of steam turbines, gas turbines, hydroelectric turbines, turbo-compressors, and industrial circulating systems. Formulated with highly refined base oils and advanced zinc-free additive technology, Turbex T 46 delivers outstanding oxidation resistance, rust and corrosion protection, excellent water separation characteristics, and superior air release performance.

Designed to meet the operational demands of modern turbine equipment, MAXFLUID Turbex T 46 helps extend lubricant life, maintain system cleanliness, and provide reliable protection for critical machinery operating under continuous service conditions.

Performance Features & Benefits

Excellent Oxidation Stability
Advanced antioxidant technology helps resist thermal and oxidative degradation, extending oil service life while minimizing sludge, varnish, and deposit formation.

Superior Rust & Corrosion Protection
Provides dependable protection against rust and corrosion caused by moisture, humidity, and water contamination, helping preserve critical turbine components.

Rapid Air Release & Foam Control
Special anti-foam technology minimizes foam formation and promotes rapid air release, reducing the risk of cavitation, lubricant oxidation, and excessive equipment wear.

Outstanding Water Separation
Excellent demulsibility allows water contamination to separate quickly from the lubricant, reducing corrosion risks and maintaining efficient lubrication performance.

Enhanced Equipment Reliability
Maintains system cleanliness and protects bearings, governors, and circulating system components, contributing to reduced maintenance costs and improved operational reliability.

Applications

MAXFLUID Turbex T 46 is recommended for:

- Industrial steam turbines
- Light-duty gas turbines without EP gear oil requirements
- Hydroelectric turbine lubrication systems
- Turbine-generator bearing lubrication
- Centrifugal and axial compressors
- Dynamic turbo-compressors and pumps
- Industrial circulating systems requiring Rust & Oxidation (R&O) inhibited oils
- Applications requiring long lubricant life and excellent oxidation stability

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Product Advantages

- Long service life
- Excellent thermal and oxidation stability
- Zinc-free formulation
- Outstanding rust and corrosion protection
- Excellent demulsibility
- Rapid air release properties
- Effective foam suppression
- Improved system cleanliness
- Reliable performance under continuous operation

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTIES	UNIT	METHOD	Turbex T 46
ISO Viscosity Grade	-	ISO 3448	46
Density @ 15°C	kg/m^3	ASTM D4052	858
Kinematic Viscosity @ 40°C	cSt	ASTM D445	46
Kinematic Viscosity @ 100°C	cSt	ASTM D445	6.90
Viscosity Index	-	ASTM D2270	105
Flash Point (COC)	°C	ASTM D92	220
Pour Point	°C	ASTM D97	-27
Water Demulsibility	minutes	ASTM D1401	15
Steam Demulsibility	seconds	ASTM D445	153

The values shown are typical characteristics and may vary within normal manufacturing tolerances.

Health and Safety

MAXFLUID Turbex T 46 is a high-quality industrial turbine oil formulated for use in steam turbines, gas turbines, hydroelectric turbines, compressors, and circulating systems. Under normal operating conditions and when handled in accordance with recommended practices, the product is not expected to present significant health or safety hazards.

Avoid prolonged or repeated skin contact and prevent contact with eyes. Appropriate personal protective equipment (PPE), including safety glasses and protective gloves, should be worn when handling the product. Ensure adequate ventilation in enclosed areas and avoid inhalation of oil mists.

In the event of skin contact, wash thoroughly with soap and water. If the product comes into contact with the eyes, rinse immediately with plenty of clean water and seek medical attention if irritation persists. If swallowed, do not induce vomiting; seek medical advice immediately.

Store in tightly closed containers in a cool, dry, and well-ventilated area away from direct sunlight and excessive heat. Prevent spills from entering drains, waterways, or soil.

For detailed information regarding safe handling, storage, transportation, and disposal, please refer to the latest Safety Data Sheet (SDS) for MAXFLUID Turbex T 46.

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