

## SCÖM Turbine Oil

### Product Description

**SCÖM 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.

### Product Features & 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.

### Application

**SCÖM 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.

### Approvals & Specifications

SCOM 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/cm <sup>3</sup> | 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, ENVIRONMENT & STORAGE

- **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.

