Product Data Sheet

**Tomoil™ TP 46**

Turbine oil

**Product description**

Tomoil™ TP 46, meticulously crafted by German technology and engineers, stands as a high-performance turbine oil designed to excel in both geared and non-geared steam turbines, rotary air compressors, and diverse industrial applications. Its formulation combines thoughtfully chosen base stocks with cutting-edge additive technology, guaranteeing unparalleled oxidation stability, strong resistance against rust, as well as remarkable air release and rapid water separation abilities.

**Application**

**Features & Benefits**

• Excellent oxidation resistance and thermal stability  
• High viscosity index  
• Superior anti-wear protection  
• Good demulsibility  
• Compatible with seals and gaskets  
• Low foaming tendency

**Typical Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | **Unit** | **Test method** | **Typical value** |
| ISO viscosity grade | - | - |  |
| Density at 15°C | g/cm3 | ASTM D4052 |  |
| Kinematic Viscosity at 40°C | mm2/s | ASTM D445 |  |
| Kinematic Viscosity at 100°C | mm2/s | ASTM D445 |  |
| Viscosity Index | - | ASTM D2270 |  |
| Flash Point (COC) | °C | ASTM D92 |  |
| Pour Point | °C | ASTM D97 |  |
| Acid number | mg KOH /g | ASTM D2896 |  |
| Water demusability | min | ASTM D1401 |  |
| Air release | min | ASTM D3427 |  |
| Copper Strip Corrosion, 3 h, 100 °C | - | ASTM D130 |  |
| Oxidation stability - TOST Life | hrs | ASTM D943 |  |
| Oxidation stability - RPVOT | min | ASTM D2272 |  |
| Rust-Preventing Characteristics, A&B | - | ASTM D665 |  |

Typical property characteristics are based on current production. Whilst future production will conform to Tomoil™ specifications, variations in these characteristics may occur.

**Specifications**

• DIN 51515 Part I  
• AIST (US Steel) 120/125  
• ASTM D4304  
• British Standard BS489  
• General Electric GEK-46506 E  
• General Electric GEK-28143 B  
• Siemens TVL 901304  
• JIS K 2213

**Health, Safety & Environment**

* **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: [www.tomoil.de](http://www.tomoil.de)

* **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

**Available pack sizes**

* 1 L Canister plastic
* 4 L Canister plastic
* 5 L Canister plastic
* 7 L Canister plastic
* 20 L Canister plastic
* 30 L Canister plastic
* 200 L Drum sheet metal
* 1000 L Container

**Storage**

* We recommend to store all packages under cover.
* Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
* Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

**Notes**

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