



Technical Data Sheet (TDS) — Turbine Oil

Product Name: Basekim Turbine Oil

Supplier: Basekim Chemical Production Co.

Product Description

Basekim Turbine Oil is a high-quality industrial lubricant formulated to offer excellent oxidation resistance, good demulsibility (water separation), corrosion protection, and clean performance under high thermal stress. Designed to maintain efficient and reliable lubrication in steam, gas, and hydraulic turbines as well as related rotating equipment.

Applications

- Steam Turbines (Power Plants)
- Gas Turbines
- Hydraulic Turbines / Hydropower Stations
- Circulating systems (bearing lubrication, gear drives where applicable)
- Industrial machinery requiring high stability and long oil life

Key Performance Benefits

Benefit	Operational Advantage
Oxidation Stability	Longer oil service life; fewer deposit/sludge issues
Water Separation	Rapid demulsification reduces rust/corrosion and bearing wear
Corrosion Protection	Protects surfaces, reduces maintenance costs
Thermal Stability	Maintains lubricant properties at elevated temperatures
Cleanliness / Deposit Control	Low sludge, low deposit formation, clean bearings and turbine internals

Typical Physical & Performance Specifications

Property	Typical Value / Range*
Density @ 15 °C	~0.85-0.89 g/cm ³
Kinematic Viscosity @ 40 °C	~20-50 cSt (depending on grade)
Viscosity @ 100 °C	~4-10 cSt
Viscosity Index (VI)	~90-110



Property	Typical Value / Range*
Flash Point (Closed Cup)	~180-220 °C
Pour Point	~-10 to -20 °C
Demulsibility (e.g., water separation time)	Good (typically per ASTM D1401 or ISO equivalent)
Rust Test	Passes standard rust prevention test (e.g., ASTM D665)
Oxidation Stability (e.g. RPVOT/POV)	High – nominal minimal increase in TAN over standard test duration
Foam Characteristics	Low foaming under operation

- These values are typical; actual specifications will vary per specific turbine oil grade (light, medium, heavy).

Packaging

- 20 L cans
- 200 L steel drums
- IBC tanks or bulk (tankers or flexitanks)

Storage & Handling Recommendations

- Store in a clean, dry, well-ventilated warehouse.
- Avoid exposure to direct sunlight, dust, moisture contamination.
- Maintain storage temperature ideally between 5-40 °C.
- Ensure containers are tightly sealed to prevent oxidation and contamination.

Oil Life & Maintenance Guidelines

- Monitor oil condition periodically (look for changes in color, viscosity, TAN, presence of sludge or particles).
 - Oil change intervals depend on operating temperature, load, contamination, water ingress.
 - Use proper filtration and water separation as needed.
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Safety & Usage Notes

- Avoid mixing with incompatible oils or contaminants.
- Use correct oil grade as recommended by turbine / equipment manufacturer.
- Dispose of used oil in accordance with environmental regulations.