

JoshTurbine

Syn 46 Synthetic Turbine Oil

Product Description

JoshTurbine is a premium Synthetic Polyalphaolefin (PAO) + Ester Blend Synthetic Turbine Oil designed for Advanced gas turbines, peaker plants, extreme temperature gas turbines, arctic/desert installations. Meets DIN 51515-2 L-TG Synthetic, ISO 8068, GE GEK-32568 Synthetic, Alstom HTGD 90117 Syn specifications and delivers exceptional performance in demanding conditions.

Technical Specifications

Appearance	Water white clear liquid
Density at 15°C	0.850-0.860 g/cm³
Kinematic Viscosity at 40°C	44-48 cSt
Kinematic Viscosity at 100°C	7.5-8.5 cSt
Viscosity Index	140 min
Flash Point (COC)	250°C min
Pour Point	-42°C max
Total Acid Number	0.15 mgKOH/g max
Oxidation Stability (TOST ASTM D943)	10,000+ hours
Oxidation Stability (RPVOT ASTM D2272)	1,400+ minutes
Rust Test (ASTM D665 A&B)	Pass
Demulsibility (ASTM D1401)	40-37-3 (12 min max)
Foam Test (Seq I/II/III)	15/0, 15/0, 15/0 ml
Air Release (ASTM D3427)	3 min max at 50°C
Copper Corrosion (3h/100°C)	1a
FZG Load Stage (A/8.3/90)	12+ pass (fail stage)
Thermal Stability	Excellent to 300°C
Low Temperature Pumpability	-48°C
Service Life	3-4x mineral oil

Applications

Advanced gas turbines, peaker plants, extreme temperature gas turbines, arctic/desert installations

Performance Standards

DIN 51515-2 L-TG Synthetic

Handling & Storage

- Store in a cool, dry place away from direct sunlight
- Keep container tightly closed when not in use
- Shelf life: 36 months from date of manufacture
- Do not mix with other lubricants