

Technical Data Sheet

Product Name: Wind Turbine Gear Oil, High-Performance Synthetic Gear Lubricant

Product Code: SCL-18

Revision Date: 2024-09-27

1. Product Description

This high-performance synthetic gear oil is specifically designed for wind turbine main gearboxes. Formulated with advanced synthetic base oils and a premium additive package, it offers excellent oxidation stability, wear protection, and extended service life under extreme conditions.

2. Applications

- Wind turbine main gearboxes operating under high loads and wide temperature ranges
- Suitable for use in both onshore and offshore wind energy installations

3. Performance Features and Benefits

- Excellent thermal and oxidation stability for extended drain intervals
- Outstanding wear protection for gears and bearings
- Superior water separation and rust protection
- High load-carrying capacity and micropitting resistance
- Compatible with common gearbox materials and seals

4. Typical Properties

Property	Test Method	Typical Value
ISO Viscosity Grade	ASTM D2422	320
Viscosity @ 40°C, cSt	ASTM D445	320
Viscosity @ 100°C, cSt	ASTM D445	34.5
Viscosity Index	ASTM D2270	170
Pour Point, °C	ASTM D97	-42
Flash Point, °C	ASTM D92	240
FZG Gear Test, Failure Load Stage	DIN 51354	>12
Four-Ball Wear, mm	ASTM D4172	0.38

5. Health and Safety

This product is unlikely to present any significant health or safety hazards when properly used in the recommended application. Avoid contact with skin. After contact with skin, wash immediately with soap and water. For more information, refer to the Safety Data Sheet (SDS).