



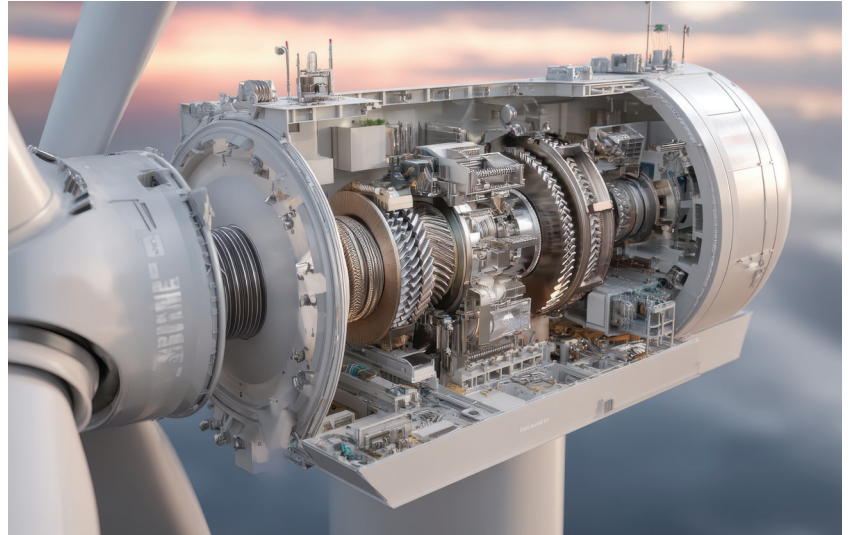
SYNFILM® GT WIND GEAR 320

SYNTHETIC WIND TURBINE GEARBOX OIL WITH SYNERLEC®

Synfilm GT Wind Gear 320 is a synthetic gear oil specifically formulated to meet the demanding requirements of modern wind turbine gearboxes. It has proven to extend drain intervals for several years while providing exceptional bearing and gear protection. The product has also shown to improve Turbine efficiency by reducing parasitic loss in the gear units. It also helps improve turbine efficiency by reducing parasitic loss in the gear unit. Synfilm GT Wind Gear 320 is formulated for long service life, high film strength, and energy-efficient operation

What sets Synfilm GT Wind Gear 320 apart from competing mineral and synthetic oils is its combination of premium synthetic base oils and our proprietary Synerlec® additive technology.

Proven in demanding industrial environments, Synerlec helps equipment run smoother, cooler, quieter, longer and more efficiently – delivering longer service life, greater reliability, and maximized uptime with reduced maintenance and total cost of ownership.



PROPRIETARY ADDITIVE TECHNOLOGY – SYNERLEC®

Synerlec® additive technology forms a tough, slippery film that bonds ionically to metal surfaces, increasing oil film thickness beyond what viscosity alone can provide. This reinforced film greatly reduces the likelihood of breach, preventing metal-to-metal contact even under severe operating conditions where ordinary lubricants would fail. Because Synerlec allows a lubricant to carry significantly higher loads than other mineral and synthetic oils, it delivers extra protection for bearings exposed to misalignment, shaft flex, high temperatures, imbalance, or water contamination – factors that typically thin oil films. In addition, Synerlec can smooth metal surfaces already damaged by wear by gently micro-mending surface asperities.

PERFORMANCE ADVANTAGES

EXCEPTIONAL LOAD & WEAR PROTECTION –

Delivers outstanding film strength to help prevent scuffing, wear, and micropitting in wind turbine gearboxes.

DEPOSIT CONTROL – Resists thermal and oxidative degradation to inhibit sludge and varnish formation during demanding service.

SUPERIOR FILTERABILITY – Maintains filterability in both wet and dry operating conditions to help support cleaner systems.

INCREASED UPTIME – Provides durable protection designed to improve reliability and reduce unplanned downtime.

EXCELLENT DEMULSIBILITY – Rapidly separates from water, helping inhibit rust and corrosion and allowing free water to be drained from the system.

MATERIAL COMPATIBILITY – Compatible with common seal materials and gearbox coatings to help reduce leakage and coating deterioration



SYNFILM[®] GT WIND GEAR 320

SYNTHETIC WIND TURBINE GEARBOX OIL WITH SYNERLEC[®]

TYPICAL APPLICATIONS & INDUSTRIES

- Wind turbine gearboxes
- Wind energy

PERFORMANCE REQUIREMENTS MET OR EXCEEDED

- DIN 51517-3
- AGMA 9005-F16
- ISO 12925-1 CKSMP

TECHNICAL DATA

| ISO Grade / SAE Grade | 320/ 140 |
|--|---------------------|
| Color | Amber |
| Relative Density @ 60°F/60°F, ASTM D1298 | 0.875 |
| Viscosity @ 100°C cSt, ASTM D445 | 29.3 |
| Viscosity @ 40°C cSt, ASTM D445 | 320.0 |
| Viscosity Index ASTM D2270 | 125 |
| Flash Point °C (°F) (COC), ASTM D92 | 229 (444) |
| Pour Point °C (°F), ASTM D97 | -45 (-49) |
| Rust Test 4 hrs @ 60°C, DI H ₂ O, ASTM D665A | PASS |
| Rust Test 4 hrs @ 60°C, Sea H ₂ O, ASTM D665B | PASS |
| Copper Corrosion 3 hrs @ 100°C, ASTM D130 | 1A |
| Copper Corrosion 24 hrs @ 100°C, ASTM D130 | 1A |
| FZG Scuffing ISO 14635-1, A/8.3/90, Fail Stage | 14+ |
| Emulsion Characteristics @ 82°C, oil/water/emulsion-minutes, ASTM D1401 | 42/37/1-15 |
| Foaming Characteristics 3 sequences @24°C, 93.5°C, 24°C: tendency/stability (ml)-time to break (sec), ASTM D892 | 0/0-0, 0/0-0, 0/0-0 |



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