



# Better engine oils

Power to protect. Power to perform.



## TOP EP LUBRICANT SY 220

**PRODUCT CODE: TO2811**

**TOP EP LUBRICANT SY 220** is an ultra-high performance fully synthetic industrial gear oil suitable for wind-turbines, heavy loaded closed gear boxes and circulation systems operating under extreme conditions and high temperatures. Formulated special selected PAO (PolyAlphaOlefins) and ester base stocks in combination with a unique performance additive technology to achieve the following performance.

### BENEFITS:

- Outstanding load carrying capability.
- Excellent low temperature properties.
- Effective lubrication over a wide temperature range.
- Superior thermo- and oxidation stability.
- Long service intervals.
- Excellent protection against rust, wear and foaming.
- Very high demulsibility.
- Excellent corrosion and micropitting protection (both 90°C and 60°C tests of Winergy and Vestas)

Exceeds the following performance requirements:

- DIN 51517, part 3 AGMA 9005-EO2
- ISO 12925-1 AIST 224
- David Brown S1.53.101 E Flender MAG (Cincinnati Milacron) P74

### TYPICAL ANALYSIS:

| Properties               | Unit               | Method      | Typical Value |
|--------------------------|--------------------|-------------|---------------|
| ISO VG Grade             |                    | ISO 3448    | 220           |
| Density @15°C            | kg/m <sup>3</sup>  | ASTM D4052  | 852           |
| Kin. Viscosity @40°C     | mm <sup>2</sup> /s | ASTM D7042  | 220           |
| Kin. Viscosity @100°C    | mm <sup>2</sup> /s | ASTM D7042  | 29.2          |
| Viscosity Index          |                    | ASTM D2270  | 168           |
| Flash Point COC, min     | °C                 | ASTM D92    | >218          |
| Pour Point               | °C                 | ASTM D7346  | -42           |
| FZG Fail Load Stage, min |                    | DIN 51354-2 | >12           |
| Total Acid Number        | mgKOH/g            | ASTM D664   | <0.5          |

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