LGBB 2

SKF Wind Turbine Blade and Yaw Bearing Grease

SKF LGBB 2 is a lithium complex/synthetic PAO oil based grease specially designed for extreme conditions involving very low speeds, high loads, low temperatures and oscillating conditions. This grease provides proper lubrication whether the turbine is operating or in stand-still mode, installed onshore, offshore, or in cold climate areas.

- Excellent false brinelling protection
- Excellent performance under high loads
- Excellent performance at low temperature starting torque
- Good pumpability down to low temperatures
- Excellent water resistance
- Excellent corrosion protection
- High thermal and mechanical stability

Typical applications:

- Wind turbine blade and yaw bearing applications

Technical data

Designation	LGBB 2/(pack size)
DIN 51825 code	KP2G-40
NLGI consistency class	2
Soap type	Lithium complex
Colour	Yellow
Base oil type	Synthetic (PAO)
Operating temperature range	–40 to +120 °C *(–40 to +250 °F)*
Dropping point DIN ISO 2176	>200 *(390 °F)*
Base oil viscosity 40 °C, mm^2/s	 68
Penetration DIN ISO 2137 60 strokes, 10^{-1} mm 100 000 strokes, 10^{-1} mm	 265–295 +50 max.
Mechanical stability Roll stability, 50h at 80 °C, 10^{-1} mm	 +50 max.
Corrosion protection Emcor: – Standard ISO 11007 – Salt water test (100% sea water)	 0–0 0–1*

Water resistance DIN 51 807/1, 3 hours at 90 °C	 1 max.
Oil separation DIN 51817, 7 days at 40 °C, static, %	 4 max, 2.5*
Copper corrosion DIN 51 811, 120 °C	 1 max.
EP performances Wear scar DIN 51350/5, 1400 N, mm 4-ball test, welding load DIN 51350/4, N	 0.4 * 5 500 *
Rolling bearing lubrication ability Fe8, DIN 51819, 80 kN, 80 °C, C/P 1.8, 500 h	 pass
False brinellng resistance ASTM D4170 FAFNIR test, mg	 0–1.0
Avalaible packsizes	420 ml cartridge 5, 18, 180 kg

* Typical value

SKF lubricants offer major competitive advantages:

- Designed and tested to outperform under real conditions
- Product data include specific test results enabling a better selection
- Strict quality control of every production batch help ensure consistent performance
- Quality control allows SKF to offer a five–year shelf-life* from the date of production

Production processes and raw materials vastly influence grease properties and performance. It is virtually impossible to select or compare greases based only on their composition. Therefore, performance tests are needed to provide crucial information. In over 100 years, SKF has accrued vast knowledge about the interaction of lubricants, materials and surfaces.

This knowledge has led SKF, in many cases, to set industry standards in bearing lubricant testing. Emcor, ROF, ROF+, V2F, R2F and Bequiet are just some of the multiple tests developed by SKF to assess the performance of lubricants under bearing operating conditions. Many of them are widely used by lubricant manufacturers worldwide.

* SKF LGFP 2 food grade grease offers a two-year shelf-life from the date of production

PUB MP/P8 12043 EN · July 2011