LGHB 2

SKF High Load, High Temperature, High Viscosity Bearing Grease



SKF LGHB 2 is a high viscosity, mineral oil based grease, using the latest complex calcium-sulphonate soap technology. Formulated to withstand high temperatures and extreme loads, it is suitable for a wide range of applications, especially in the cement, mining and metals segments. This grease contains no additives and the extreme pressure properties arise from the soap structure.

- Excellent load capacity, anti-oxidation and corrosion protection even with large water ingress
- Withstands peak temperatures of 200 °C *(390 °F)*

Typical applications:

- Steel on steel plain bearings
- Pulp and paper making machines
- Asphalt vibrating screens
- Continuous casting machines
- Sealed spherical roller bearings operating up to 150 °C *(300 °F)*
- Work roll bearings in steel industry
- Mast rollers of fork lift trucks







Technical data

Designation	LGHB 2/(pack size)
DIN 51825 code	KP2N-20
NLGI consistency class	2
Soap type	Complex calcium sulphonate
Colour	Brown
Base oil type	Mineral
Operating temperature range	–20 to +150 °C *(–5 to +300 °F)*
Dropping point DIN ISO 2176	>220 °C *(>430 °F)*
Base oil viscosity	
40 °C, mm /s	400–450
100 °C, mm /s	26,5
Penetration DIN ISO 2137	
60 strokes, 10^{-1} mm	265–295
100 000 strokes, 10^{-1} mm	–20 to +50 (325 max.)
Mechanical stability	
Roll stability, 72 hrs at 100 °C, 10^{-1} mm	–20 to +50 change
V2F test	'M'
Corrosion protection	
Emcor: – standard ISO 11007	0–0
– water washout test	0–0
– salt water test (100% seawater)	0–0*
Water resistance	
DIN 51 807/1,	
3 hrs at 90 °C	1 max.
Oil separation	
DIN 51 817,	
7 days at 40 °C, static, %	1–3 at 60 °C *(140 °F)*
Lubrication ability	
R2F,	
running test B at 120 °C	Pass at 140 °C *(285 °F)*
Copper corrosion	
DIN 51 811, 110 °C	2 max. 150 °C *(300 °F)*
Rolling bearing grease life	
ROF test	
L_{50} life at 10 000 r/min., hrs	>1 000 at 130 °C *(265 °F)*
EP performance	
Wear scar DIN 51350/5, 1 400 N, mm	0,86*
4–ball test, welding load DIN 51350/4, N	4 000 min.
Fretting corrosion	
ASTM D4170 (mg)	0*
Available pack sizes	420 ml cartridge 5, 18, 50, 180 kg SKF SYSTEM 24 (LAGD/TLSD), TLMR

* 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

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