

LGGB 2

SKF “green” biodegradable bearing grease

LGGB 2 is biodegradable, low toxicity, synthetic ester oil based grease using a lithium–calcium thickener. It has excellent lubrication properties for a wide range of applications operating under different conditions.

- Compliance with current regulations on toxicity and biodegradability
- Good performance in applications with steel-on-steel spherical plain bearings, ball bearings and roller bearings
- Good low temperature start-up performance
- Good corrosion inhibiting properties
- Suitable for medium to high loads

Typical applications:

- Agricultural and forestry equipment
- Construction and earthmoving equipment
- Mining and conveying equipment
- Water treatment and irrigation
- Locks, dams, bridges
- Linkages, rod ends
- Other applications where contamination of the environment is a concern

Bearing operating conditions

Temperature	Low to medium
Speed	Low to medium
Load	Medium to high
Vertical shaft	○
Fast outer ring rotation	—
Oscillating movements	+
Severe vibrations	+
Shock load or frequent start-up	+
Low noise	—
Low friction	—
Rust inhibiting properties	+
+ = Recommended ○ = Suitable — = Not suitable	

Available pack sizes LGGB 2

SYSTEM 24	420 ml cartridge
5 kg can	18 kg can
180 kg drum	



Re-lubrication



Technical data

Designations	LGGB 2		
DIN 51825 code	KPE 2K-40	Water resistance	
NLGI consistency class	2	DIN 51 807/1, 3 hrs at 90 °C	0 max.
Soap type	Lithium /calcium	Oil separation	
Colour	Off white	DIN 51 817, 7 days at 40 °C, static, %	0,8 - 3
Base oil type	Synthetic	Lubrication ability	
Operating temperature range, °C (°F)	-40 to 120 (-40 to 250)	SKF R2F, running test B	Pass at 100 °C* (212 °F)
Dropping point DIN ISO 2176, °C (°F)	>170 (>338)	Copper corrosion	
Base oil viscosity:		DIN 51 811, 100 °C	-
40 °C, mm ² /s	110	Rolling bearing grease life	
100 °C, mm ² /s	13	SKF R0F test L ⁵⁰ life at 10 000 rpm, hrs	> 300 at 120 °C (250 °F)
Penetration DIN ISO 2137:		EP performance	
60 strokes, 10 ⁻¹ mm	265 - 295	Wear scar DIN 51350/5, 1 400 N, mm	1,8 max.
100 000 strokes, 10 ⁻¹ mm	+50 max. (325 max.)	4-ball test, welding load DIN 51350/4	2 600 min.
Mechanical stability:		Fretting corrosion	
Roll stability, 50 hrs at 80 °C, 10 ⁻¹ mm	+70 max. (350 max.)	ASTM D4170 (mg)	
Roll stability, 72 hrs at 100 °C, 10 ⁻¹ mm	-	Designation	LGGB 2/(pack size)
SKF V2F test	-		
Corrosion protection:			
SKF Emcor: - standard ISO 11007	0 - 0		
- water washout test	-		
- salt water test (100% seawater)	-		

* Typical value

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