

LGGB 2/18 Biodegradable bearing grease



Biodegradable bearing grease

A biodegradable, low toxicity, synthetic ester oil based grease, using a lithium-calcium thickener. Its special formulation makes it suitable for applications where environmental impact is a concern.

- 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

Overview

Dimensions

Product weight

18 kg

Performance

Recommended applications	Applications where grease can leak into the environment Mining and conveying equipment Water treatment and irrigation Locks, dams, bridges
Suitable for High load applications	0
Suitable for Vertical shaft applications	0
Suitable for applications with Oscilating movements	+
Suitable for applications with Severe vibrations	-
Suitable for applications that require Rust protection	0
Suitable for	+

applications that require Water resistance	
Suitable for applications that require Frequent start-up	+
Speed (max.) n x dm (x 1000)	300
Operating temperature range	-40 – 90 °C
Dropping point (min) ISO 2176	170 °C
Penetration DIN ISO 2137, Worked, 60 strokes (10 ¹ mm)	265 - 295
Penetration DIN ISO 2137, Prolonged (max.), 100 000 strokes, 10 ¹ mm	+50
Mechanical stability - Roll stability, ASTM D1831 (max.) 50 hrs at 80°C, 10 ¹ mm	+70
Mechanical stability, V2F test, 144 hrs	-
Corrosion protection, Emscor, ISO 11007, Distilled water	0-0
Corrosion protection, Emscor, ISO 11007 modified, Water washout	-
Corrosion protection, Emscor, ISO 11007 modified, 0.5% NaCl	-
Water resistance (max.) DIN 51807/1, 3 hrs at 90 °C	0

Oil separation DIN 51817, 40°C, % 0.8-3

Lubrication ability, R2F test B at 120°C Pass at 100°C

Copper corrosion (max.) DIN 51811 /ASTM D4048, 24 hrs at 100°C -

Rolling bearing grease life (max.) ROF test, L50 life, 10000 r/min, hrs at °C 1000 at 100°C

EP performance - 4 ball - Wear scar (max.) DIN 51350/5, 1400N 1.8 mm

EP performance - 4 ball - Weld load (min.) DIN 51350/4 2 600 N

Properties

DIN 51825 code	KPE2K-40
NLGI consistency class	2
Thickener	Lithium/calcium
Colour	Off white
Base oil type	Synthetic ester
Base oil viscosity DIN 51562 at 40 °C	110 mm ² /s
Base oil viscosity DIN 51562 at 100 °C	13 mm ² /s
Shelf life	2 year
Packsize	18 kg pail
Available for single point lubrication	yes

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