

# LGGB 2/5 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	5 kg
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## 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 <sup>1</sup> mm)	265 - 295
Penetration DIN ISO 2137, Prolonged (max.), 100 000 strokes, 10 <sup>1</sup> mm	+50
Mechanical stability - Roll stability, ASTM D1831 (max.) 50 hrs at 80°C, 10 <sup>1</sup> 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 <sup>2</sup> /s
Base oil viscosity DIN 51562 at 100 °C	13 mm <sup>2</sup> /s
Shelf life	2 year
Packsize	5 kg can
Available for single point lubrication	yes

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