

Image may differ from product. See technical specification for details.

LGEP 1/18

Extreme pressure bearing grease

A high viscosity, low consistency mineral oil based grease, using a lithium-calcium thickener. It is extremely suitable for the lubrication of large bearings subjected to high loads and low speeds. This grease has been developed to deliver extended maintenance intervals while minimizing downtime.

- Excellent mechanical stability
- Very good protection against fretting and wear
- Good flow at low starting temperature
- Good flow properties that enable easy replenishment within the bearing design
- Low friction characteristics that help to maintain low operating temperatures
- Excellent water resistance and corrosion protection
- Good pumpability

Overview

Performance

Suitable for High load applications	●●●●●
Suitable for Vertical shaft applications	●○○○○
Suitable for applications with Oscilating movements	●●●●○
Suitable for applications with Severe vibrations	●●○○○
Suitable for applications that require Rust protection	●●●●○
Suitable for applications that require Water resistance	●●●●○
Suitable for applications that require Frequent start-up	●●●●●
Operating temperature range	-20 – 120 °C
Load Range	High - Very high C/P < 6
Speed Range	Very low - Medium
Dropping point (min) ISO 2176	170 °C
Penetration DIN ISO 2137, Worked, 60 strokes (10^{-1}mm)	310 - 340
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	+50
Mechanical stability, V2F test, 144 hrs	-
Corrosion protection, Emcor, ISO 11007, Distilled water	0-0
Corrosion protection, Emcor, ISO 11007 modified, Water washout	0-0
Corrosion protection, Emcor, ISO 11007 modified, 0.5% NaCl	0-0 (1%NaCl)
Water resistance (max.) DIN 51807/1, 3 hrs at 90 °C	1
Oil separation DIN 51817, 40°C, %	1-5
Lubrication ability, R2F test B at 120°C	Pass at 80°C
Copper corrosion (max.) DIN 51811 /ASTM D4048, 24 hrs at 100°C	1 at 120°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	3400 N

Properties

Recommended applications	Wind turbine main shaft bearings Large bearing applications Heavy industrial applications Centralized lubrication systems
Category	Bearing grease
Lubricant	LGEP 1
NLGI consistency class	1
Base oil viscosity DIN 51562 at 40 °C	400 mm^2/s
Base oil viscosity DIN 51562 at 100 °C	25 mm^2/s
Biodegradable	No

Food Grade	No
DIN 51825 code	KP1K-20
Thickener	Lithium calcium
Colour	Beige
Base oil type	Mineral
Shelf life	5 year

Logistics

Country of Manufacturing (COM code)	18 - Germany
Product net weight	18 kg
eClass code	23-06-01-01
UNSPSC code	15121902

Compatible products

Recommended tool

Grease pump for use on drums	LAGG 18M
Lubrication tool accessories	TMBA G11DB
Air-driven grease pump for use on grease drums/ pails, mobile	LAGG 18AF
Air-driven grease pump for use on grease drums/ pails, mobile	LAGG 18AE
Grease trolley for grease drums/ pails, for Air-driven grease pumps	LAGT 18-50F

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