

SKF Bearing Grease

Extreme pressure grease

LGEP 1

SKF LGEP 1 is 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. LGEP 1 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

Applications

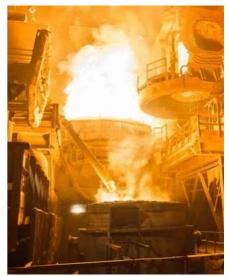
- Wind turbine main shaft bearings
- Large bearing applications

Available pack sizes

- Heavy industrial applications
- Centralized lubrication systems

Packsize	Designation	
18 kg pail	LGEP 1/18	LGEP 1/18
		SKF Bearing Grease







Technical data			
Designation	LGEP 1/(pack size)		
DIN 51825 code	KP1K-20	Corrosion protection	
NLGI consistency class	1	Emcor: – standard ISO 11007 – water washout test	0–0 0–0
Thickener	Lithium-Calcium	– salt water test (1% NaCl)	0-0
Colour	Beige	Water resistance	
Base oil type	Mineral	DIN 51 807/1, 3 brs at 90 °C	1
Operating temperature range	–20 to +120 °C (–4 to +248 °F)	Oil separation	1 max.
Dropping point DIN ISO 2176	170 °C min. (338 °F min)	DIN 51 817, 7 days at 40 °C, static, %	1–5
Base oil viscosity 40 °C, mm²/s 100 °C, mm²/s	400 25	Lubrication ability R2F, running test B at 120 °C	Pass at 80 °C <i>(176 °F)</i>
Penetration DIN ISO 2137 60 strokes, 10 ⁻¹ mm	310–340	Copper corrosion DIN 51 811, 120 °C	1 max.
100 000 strokes, 10 ⁻¹ mm	+50 max.	Rolling bearing grease life ROF test, L ₅₀ life at 10 000 r/min., hrs	1 000 min. at 100 °C (212 °F)
Mechanical stability Roll stability, 50 hrs at 80 °C, 10 ⁻¹ mm	+50 max.	EP performance Wear scar DIN 51350/5, 1 400 N, mm 4-ball test, welding load DIN 51350/4. N	1.8 max. 3400 min.

These characteristics represent typical values.

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Advanced tool for grease selection and relubrication calculation

LubeSelect for SKF greases

Selecting a suitable grease for a particular bearing is a crucial step if the bearing is to meet design expectations in its application. SKF knowledge about bearing lubrication has been encapsulated into a computer program that can be consulted at skf.com/lubeselect

LubeSelect for SKF greases provides you a user friendly tool to select the right grease and suggest frequency and quantity, while taking into account the particular conditions of your application. General guidelines for typical greases for different applications are also available.



Scan or click the QR code, or go to skf.com/lubeselect

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PUB MP/P8 19140/4 EN · March 2024

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