

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
- Heavy industrial applications
- Centralized lubrication systems



Available pack sizes

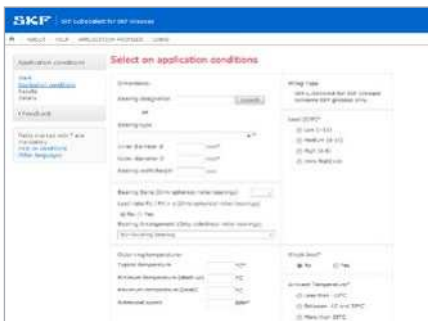
Packsizes	Designation
18 kg pail	LGEP 1/18
180 kg drum	LGEP 1/180



Technical data

Designation	LGEP 1/(pack size)		
DIN 51825 code	KP1K-20	Corrosion protection	
NLGI consistency class	1	Emcor: – standard ISO 11007	0–0
Thickener	Lithium-Calcium	– water washout test	0–0
Colour	Beige	– salt water test (1% NaCl)	0–0
Base oil type	Mineral	Water resistance	
Operating temperature range	–20 to +120 °C (–4 to +248 °F)	DIN 51 807/1, 3 hrs at 90 °C	1 max.
Dropping point DIN ISO 2176	170 °C min. (338 °F min)	Oil separation	
Base oil viscosity		DIN 51 817, 7 days at 40 °C, static, %	1–5
40 °C, mm ² /s	400	Lubrication ability	
100 °C, mm ² /s	25	R2F, running test B at 120 °C	Pass at 80 °C (176 °F)
Penetration DIN ISO 2137		Copper corrosion	
60 strokes, 10 ⁻¹ mm	310–340	DIN 51 811, 120 °C	1 max.
100 000 strokes, 10 ⁻¹ mm	+50 max.	Rolling bearing grease life	
Mechanical stability		R0F test, L ₅₀ life at 10 000 r/min., hrs	1 000 min. at 100 °C (212 °F)
Roll stability, 50 hrs at 80 °C, 10 ⁻¹ mm	+50 max.	EP performance	
		Wear scar DIN 51350/5, 1 400 N, mm	1.8 max.
		4-ball test, welding load DIN 51350/4. N	3400 min.

These characteristics represent typical values.



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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