

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



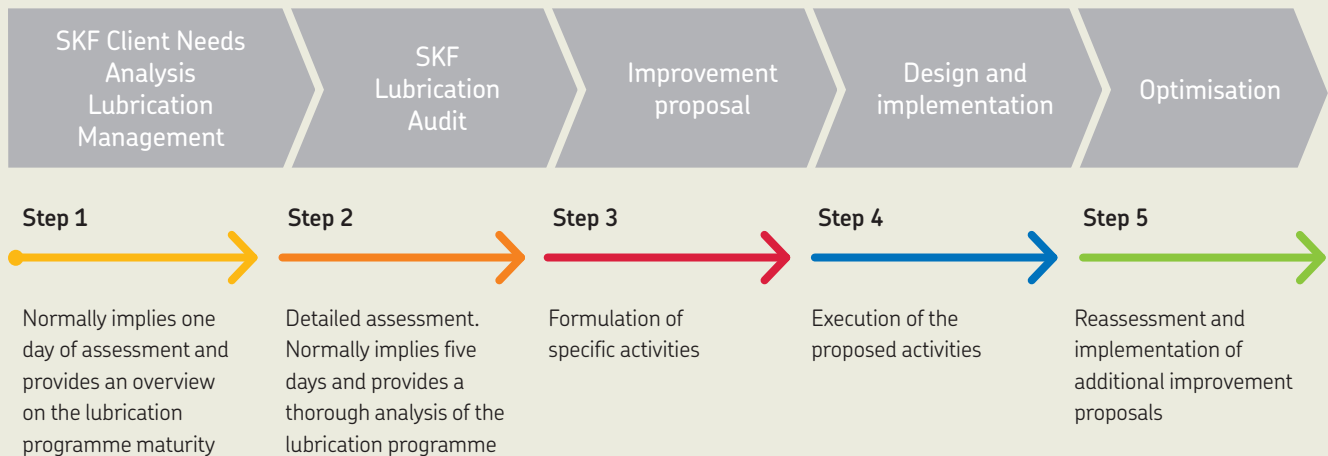
Technical data

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.

Lubrication management

Just as asset management takes maintenance to a higher level, a lubrication management approach allows lubrication to be seen from a wider point of view. This approach helps to effectively increase machine reliability at a lower overall cost.



skf.com | skf.com/lubrication | skf.com/mapro

© SKF is a registered trademark of the SKF Group.

© SKF Group 2022

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB MP/P8 19140/2 EN · April 2022

Certain image(s) used under license from Shutterstock.com.