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

Packsize	Designation
18 kg pail	LGEP 1/18

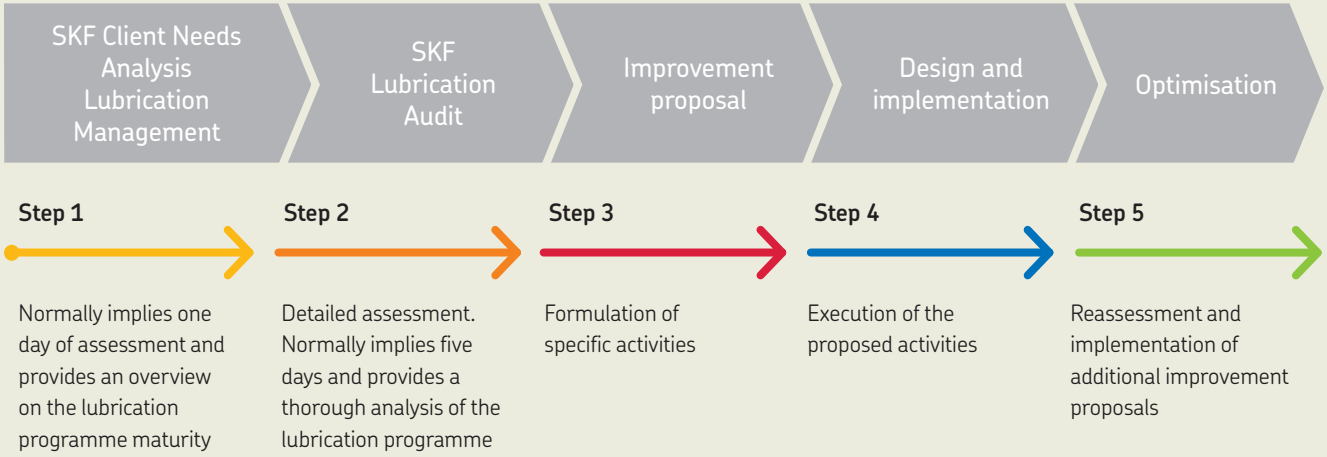
Technical data

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

PUB MP/P8 19140EN · May 2021

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