



Re-lubrication



SKF Product Data Sheet

LGFL 1

SKF food compatible, low temperature bearing grease

LGFL 1 is PAO/Ester based bearing grease using an aluminum complex soap. LGFL 1 exhibits excellent lubrication ability at low temperature or high speed and is NSF* H1** certified for use where incidental contact with food cannot be excluded.

- NSF H1 certified
- High resistance to oxidation
- Excellent corrosion protection

Typical applications:

- Any bearing operating at low temperature or high speed
- Freezing tunnels
- Conveyors
- Grinders
- Electric motors (small/medium sized-high speed)

* NSF – National Sanitation Foundation

** H1 – Incidental contact with Food



Bearing operating conditions

Temperature	Low to medium
Speed	Medium to extremely high
Load	Low
Vertical shaft	—
Fast outer ring rotation	—
Oscillating movements	—
Severe vibrations	○
Shock load or frequent start-up	—
Low noise	+
Low friction	+
Rust inhibiting properties	+

+ = Recommended ○ = Suitable — = Not suitable

Available pack sizes LGFL 1

	420 ml cartridge
1 kg can	18 kg can
180 kg drum	

Technical data

Designation	LGFL 1		
DIN 51825 code	KE/HC 1K-40	Water resistance DIN 51 807/1, 3 hrs at 90 °C	1 max.
NLGI consistency class	1	Oil separation DIN 51 817, 7 days at 40 °C, static, %	15 max.
Soap type	aluminium complex	Lubricating ability SKF R2F, running test B at 120 °C	-
Colour	White	Copper corrosion DIN 51 811, 100 °C	2 max.
Base oil type	PAO/Ester	Rolling bearing grease life SKF R0F test L50 life at 10 000 rpm, hrs	1 000 min. at 110 °C (230 °F)*
Operating temperature range, °C (°F)	-45 to 120 (-49 to 248)	EP performance Wear scar, DIN 51350/5, 1 400 N, mm 4 ball test, welding load, DIN 51350/4	- -
Dropping point DIN ISO 2176, °C (°F)	220 min. (428 min.)	Fretting corrosion ASTM D4170 (mg)	-
Base oil viscosity 40 °C, mm ² /s	30	Shelf life	2 years
100 °C, mm ² /s	6	Food compatibility NSF certified	H1 (reg. nr: 137588)
Penetration DIN ISO 2137 60 strokes, 10 ⁻¹ mm	310 - 340	Designation	LGFL 1/(pack size)
100 000 strokes, 10 ⁻¹ mm	+50 max.	* Typical value	
Mechanical stability Roll stability, 50 hours at 80 °C, change 10 ⁻¹ mm	-		
SKF V2F test	-		
Corrosion protection SKF Emcor:			
Standard ISO 11007	0 - 0		
Water washout test	-		
Salt water test (100% seawater)	-		

SKF Maintenance Products

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