

# LESA 2

## Grease developed for SKF Energy Efficient spherical roller bearings

LESA 2 grease combines a fully synthetic polyalphaolefine (PAO) base oil with a unique lithium soap thickener that has a consistency of 2 on the NLGI scale. This premium quality, low friction grease, which was specially developed for SKF Energy Efficient spherical roller bearings is suitable for temperatures between -50 and +110 °C.

- Low friction torque
- Low level of power loss
- Quiet running behaviour
- Extremely good oxidation stability and resistance to water



### Bearing operating conditions

Temperature	Low to medium
Speed	Medium to extremely high
Load	Low to medium
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 LESA 2

420 ml cartridge	1 kg can	5 kg can
18 kg can		

### Technical data

Designations	LESA 2	
DIN 51825 code	KP2G-50	
NLGI consistency class	2	
Soap type	Lithium	
Colour	Beige	
Base oil type	PAO	
Temperature range, °C (°F)	-50 to 110 (-58 to 230)	
Dropping point DIN ISO 2176, °C (°F)	180 min. (356 min.)	
Base oil viscosity:		
40 °C, mm <sup>2</sup> /s	18	
100 °C, mm <sup>2</sup> /s	4,5	
Penetration DIN ISO 2137:		
60 strokes, 10 <sup>-1</sup> mm	265 - 295	
100 000 strokes, 10 <sup>-1</sup> mm	+50 max. (325 max.)	
Mechanical stability:		
Roll stability, 50 hrs at 80 °C, 10 <sup>-1</sup> mm	+ 380 max.	
SKF V2F test	-	
Corrosion protection: SKF Emcor:		
- standard ISO 11007	0 - 1	
- water washout test	-	
- salt water test (100% seawater)	-	
Water resistance	DIN 51 807/1, 3 hrs at 90 °C	1 max.
Oil separation	DIN 51 817, 7 days at 40 °C, static, %	< 4
Lubrication ability	SKF R2F, running test B at 120 °C	-
Copper corrosion	DIN 51 811, 110 °C	1 max. (150 °C / 300 °F)
Rolling bearing grease life	SKF R0F test L50 life at 10 000 r/min, hrs	> 1 000, 20 000 r/min
EP performance	Wear scar DIN 51350/5, 1 400 N, mm 4-ball test, welding load DIN 51350/4	- 2 000 min.
Fretting corrosion	ASTM D4170 (mg)	-
Designation		LESA 2/(pack size)



Re-lubrication



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