

# LGWM 1

## SKF extreme pressure low temperature bearing grease

LGWM 1 is a mineral oil based grease using a lithium soap and containing extreme pressure additives. It is extremely suitable for the lubrication of bearings operating under both radial and axial loads e.g. transport screws.

- Good oil film formation at low temperatures down to  $-30\text{ }^{\circ}\text{C}$  ( $-22\text{ }^{\circ}\text{F}$ )
- Good pumpability at low temperature
- Good corrosion protection
- Good water resistance

### Typical applications:

- Wind turbines
- Screw conveyors
- Centralised lubrication systems
- Spherical roller thrust bearing applications

### Bearing operating conditions

Temperature	Low to medium
Speed	Low to medium
Load	High
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 LGWM 1

420 ml cartridge	5 kg can	50 kg drum
180 kg drum		



Re-lubrication



## Technical data

<b>Designations</b>	<b>LGWM 1</b>		
<b>DIN 51825 code</b>	KP1G-30	<b>Water resistance</b>	
<b>NLGI consistency class</b>	1	DIN 51 807/1, 3 hrs at 90 °C	1 max.
<b>Soap type</b>	Lithium	<b>Oil separation</b>	
<b>Colour</b>	Brown	DIN 51 817, 7 days at 40 °C, static, %	8 - 13
<b>Base oil type</b>	Mineral	<b>Lubrication ability</b>	
<b>Operating temperature range, °C (°F)</b>	-30 to 110 (-22 to 230)	SKF R2F, running test B	-
<b>Dropping point DIN ISO 2176, °C (°F)</b>	>170 (338)	<b>Copper corrosion</b>	
<b>Base oil viscosity:</b>		DIN 51 811, 100 °C	2 max.
40 °C, mm <sup>2</sup> /s	200	<b>Rolling bearing grease life</b>	
100 °C, mm <sup>2</sup> /s	16	SKF R0F test L50 life at 10 000 rpm, hrs	-
<b>Penetration DIN ISO 2137:</b>		<b>EP performance</b>	
60 strokes, 10 <sup>-1</sup> mm	310 - 340	Wear scar DIN 51350/5, 1 400 N, mm	1,8 max.
100 000 strokes, 10 <sup>-1</sup> mm	+50 max.	4-ball test, welding load DIN 51350/4	3 200 min.*
<b>Mechanical stability:</b>		<b>Fretting corrosion</b>	
Roll stability, 50 hrs at 80 °C, 10 <sup>-1</sup> mm	-	ASTM D4170 (mg)	5,5 *
Roll stability, 72 hrs at 100 °C, 10 <sup>-1</sup> mm	-	<b>Designation</b>	LGWM 1/(pack size)
SKF V2F test	-		
<b>Corrosion protection:</b>			
SKF Emcor			
- standard ISO 11007	0 - 0		
- water washout test	0 - 0		
- salt water test (100% seawater)	-		

\* Typical value

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