



Re-lubrication



SKF Product Data Sheet

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 °C (-22 °F)
- Good pumpability at low temperature
- Good corrosion protection
- Good water resistance

Typical applications:

- Typical applications
- Windmills
- 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		

Technical data

Designations	LGWM 1	
DIN 51825 code	KP1G-30	
NLGI consistency class	1	
Soap type	Lithium	
Colour	Brown	
Base oil type	Mineral	
Operating temperature range, °C (°F)	-30 to 110 (-22 to 230)	
Dropping point DIN ISO 2176, °C (°F)	>170 (338)	
Base oil viscosity:		
40 °C, mm ² /s	200	
100 °C, mm ² /s	16	
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	-	
Roll stability, 72 hrs at 100 °C, 10 ⁻¹ mm	-	
SKF V2F test	-	
Corrosion protection:		
SKF Emscor		
- standard ISO 11007	0 - 0	
- water washout test	0 - 0	
- 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, % 8 - 13	
Lubrication ability	SKF R2F, running test B -	
Copper corrosion	DIN 51 811, 100 °C 2 max.	
Rolling bearing grease life	SKF R0F test L50 life at 10 000 rpm, hrs -	
EP performance	Wear scar DIN 51350/5, 1 400 N, mm 1,8 max.	
	4-ball test, welding load DIN 51350/4 3 200 min.*	
Fretting corrosion	ASTM D4170 (mg) 5,5 *	
Designation	LGWM 1/(pack size)	

* Typical value

SKF Maintenance Products

© Copyright SKF 2007/01

www.mapro.skf.com
www.skf.com/mount

In line with our policy of continuous development of our products we reserve the right to alter any part of the above specification without prior notice. Although care has been taken to ensure the accuracy of this publication, SKF does not assume any liability for errors or omissions.
© SKF is a registered trademark of the SKF Group

