LGWM 2

SKF High Load, Wide Temperature Bearing Grease

SKF LGWM 2 is a synthetic-mineral oil based grease using the latest complex calcium sulphonate thickener technology. It is suitable for applications subjected to high loads, wet environments and fluctuating temperatures.

- Excellent corrosion protection
- Excellent mechanical stability
- Excellent high load lubricating capacity
- Good false brinelling protection
- Good pumpability down to low temperatures

Typical applications:

- Wind turbine mains shafts
- Heavy duty off road applications
- Snow exposed applications
- Marine and offshore applications
- Spherical roller thrust bearing applications

Technical data

Designation	LGWM 2/(pack size)
DIN 51825 code	KP2G-40
NLGI consistency class	1–2
Soap type	Complex calcium sulphonate
Colour	Yellow
Base oil type	Synthetic (PAO)/ Mineral
Operating temperature range	–40 to +110 °C *(–40 to +230 °F)*
Dropping point DIN ISO 2176	>300 °C *(>570 °F)*
Base oil viscosity	
40 °C, mm^2/s	80
100 °C, mm^2/s	8,6
Penetration DIN ISO 2137	
60 strokes, 10^{-1} mm	280–310
100 000 strokes, 10^{-1} mm	+30 max
Mechanical stability	
Roll stability, 50h at 80 °C, 10^{-1} mm	+50 max.
Corrosion protection	
Emcor: – standard ISO 11007	0–0
– water washout test	0–0
– salt water test (100% seawater)	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, %	3 max.
Lubrication ability	
R2F, running test B at 120 °C	Pass at 140 °C *(285 °F)*
R2F, Cold chamber test (+20 °C to –30 °C)	Pass
Copper corrosion	
DIN 51 811, 110 °C	1 max.
Rolling bearing grease life	
R0F test	
L_{50} life at 10 000 r/min., hrs	1 824* at 110 °C
EP performance	
Wear scar DIN 51350/5, 1 400 N, mm	1,5 max.
4–ball test, welding load DIN 51350/4, N	4 000
Fretting corrosion	
ASTM D4170 FAFNIR test at +25 °C, mg	5,2*
ASTM D4170 FAFNIR test at –20 °C, mg	1,1*
Available pack sizes	420 ml cartridge 5, 18, 50, 180 kg SKF SYSTEM 24 (LAGD/TLSD), TLMR

* Typical value

SKF lubricants offer major competitive advantages:

- Designed and tested to outperform under real conditions
- Product data include specific test results enabling a better selection
- Strict quality control of every production batch help ensure consistent performance
- Quality control allows SKF to offer a five–year shelf-life* from the date of production

Production processes and raw materials vastly influence grease properties and performance. It is virtually impossible to select or compare greases based only on their composition. Therefore, performance tests are needed to provide crucial information. In over 100 years, SKF has accrued vast knowledge about the interaction of lubricants, materials and surfaces.

This knowledge has led SKF, in many cases, to set industry standards in bearing lubricant testing. Emcor, R0F, R0F+, V2F, R2F and Bequiet are just some of the multiple tests developed by SKF to assess the performance of lubricants under bearing operating conditions. Many of them are widely used by lubricant manufacturers worldwide.

* SKF LGFP 2 food grade grease offers a two-year shelf-life from the date of production

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