LMCG 1

Grid and gear coupling grease





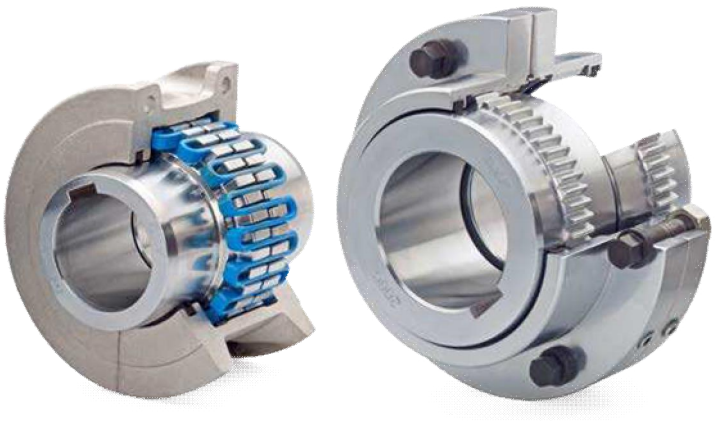
LMCG 1 is a polyethylene thickened and mineral oil based grease which also uses a lithium complex thickening technology. The grease is formulated to withstand high centrifugal forces and high-torque applications for grid and gear (flexible) couplings even where severe shock loadings, misalignment and vibration occur. Leakage is prevented at high speeds and the grease is stable in consistency. The special additive formulations make the grease suitable for applications subjected to high loads, high torque, wet environments, a wide range of speed regimes and wide range of temperatures.

Features and benefits:

- Excellent resistance to oil separation.
- High acceleration and high operating speeds.
- Excellent high-torque lubrication.
- High corrosion protection.
- Exceeds AGMA Type CG-1 and AGMA Type CG-2 requirements.
- High coupling wear protection.
- Excellent oxidation stability.
- Due to low oil bleeding tendency, suitable for use in centralized lubrication systems.

Typical applications:

- Grid couplings.
- Gear couplings.
- Flexible heavy duty grid and gear couplings.
- Low maintenance cost and long life grid and gear couplings.



Typical industries:

- Heavy industries (mining, mineral processing, cement, steel, pulp & paper).
- Marine industry.
- General machinery (petrochemical, power generation plants, etc.).

Technical data

Designation	LMCG 1/(pack size)
DIN 51825 code	GOG1G-0
NLGI consistency class	1
Soap type	Polyethylene
Colour	Brown
Base oil type	Mineral
Operating temperature range	0 to 120 °C *(32 to 248 °F)*
Dropping point DIN ISO 2176	210 °C *(410 °F)*
Base oil viscosity	
40 °C, mm^2/s	670
100 °C, mm^2/s	34
Penetration DIN ISO 2137	
60 strokes, 10^{-1} mm	310–340

Corrosion protection	
SKF Emcor:	
– standard ISO 11007	0–0
– salt water test (100% seawater)	2–2
Copper corrosion ASTM D4048	
24 hrs at 100 °C	1b
EP performance	
Wear scar DIN 51350/5, 1 400 N, mm	0,5 max.
4–ball test, welding load DIN 51350/4	3 200 N*
Koppers Method ASTM D4425	
K36, 24h	<24%
Approximate density	
at 20 °C, IPPM-CS/03	0.94
Available pack sizes	35 g tube 420 ml cartridge 2, 18, 50 kg

* 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 helps ensure consistent performance.
- SKF's quality control results in 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 in business, SKF has accrued vast knowledge about the interaction of lubricants, materials and surfaces.

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

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