

MAK LL GREASE

Premium quality long life wheel bearing grease for commercial vehicles

MAK LL Grease is a high performance long life lithium complex grease fortified with unique additive combination which provides longer re-lubrication intervals for wheel bearing. MAK LL Grease is formulated with high quality base oil and carefully selected performance additives to work efficiently in high temperatures and with severe loads that the automotive wheel bearings face in harsh Indian road conditions. The lubricating grease offers good mechanical stability and load carrying capacity, making it suitable for heavily loaded bearings.

Grades: MAK LL Grease is available in the following NLGI grades – 3.

Applications:

MAK LL Grease is recommended for lubrication of wheel bearings of all types of vehicles including commercial vehicles, heavy trucks, trailers etc. Also suggested for industrial applications on a wide range of plain and rolling bearings operating under severe conditions of load and temperature. MAK LL Grease is recommended for a grease change interval of up to 50000 km in automotive wheel bearings of commercial vehicles.

Performance/ Benefits:

Enhanced Bearing Life – high performance offers longer greasing interval as compared to other conventional greases.

Very High Drop Point – lithium complex thickener offers high drop point making the grease well suited to lubricate components efficiently under high temperature conditions.

Excellent Thermo-Oxidative Stability – offers high resistance to oxidation and thermal break down. Ensures reliability, longer operating life and less maintenance.

Good Adhesion – provides long lasting lubricating film on the bearing protecting it from any damage with good adhesion properties.

Superior Load Bearing Ability – performance enhancing additives makes it suitable for hub greasing of heavy trucks, trailers etc. which work under arduous conditions.

Excellent Rust Protection – grease offers excellent protection to wheel bearing components of vehicles from rust/ corrosion and enhances their life.

Performance Level/ Specification:

- Proprietary Grade

Typical Physico-Chemical Data: MAK LL Grease

Characteristics	Method	Value
NLGI	--	3
Appearance	Visual	Smooth
Color	Visual	Fluorescent Green
Type of Thickener		Lithium Complex
Worked penetration, @ 25 °C 60 strokes	ASTM D217	235
Drop Point, °C	ASTM D2265	255
Thermal Stability, % wt. loss	ASTM D6184	2.1
Base Oil K.V. @ 40 °C, cSt	ASTM D445	160
Resistance to water washout @ 80 °C, % wt loss, max.	ASTM D1264	2
Emcor Rust Test	ASTM D6138	0,0
Operating Temperature Range, °C	-	-20 to 160
Wheel Bearing test Leakage by mass, gms Other Observations	ASTM D1263	1.1 No deposits
Copper Corrosion at 100 °C for 24 hrs.	ASTM D4048	Negative
Four-Ball Weld Load, kg	IP 239	250

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 2 yrs. under protected conditions.

Health & Safety:

It is unlikely to be hazardous when properly used in recommended applications. Contamination of the grease from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.