

MAK LL GREASE 3

Description

MAK LL Grease 3 is high performance long life lithium complex grease, fortified with unique additive combination which provides longer re-lubrication intervals for wheel bearing applications.

Formulated with high quality base oil, this grease can take on high temperatures and severe loads that the automotive wheel bearing face in tough Indian road conditions.

Application

- Recommended for Lubrication of wheel bearings of all types of vehicles including heavy trucks, trailers etc
- Also suggested for industrial applications operating under severe conditions of load and temperature

Operating Temperature Range
-20°C to +160°C

Benefits

- **High Drop point**- With a higher drop point grease is well suited to lubricate components efficiently under high temperature conditions also
- **Excellent oxidation** and thermal stability- It is this which provides extended life to the grease which encounter high temperatures in wheel bearings of vehicles.
- **Good adhesion** to surface- Which provides long lasting lubricating film on the bearing protecting it from any damage
- **Greater resistance to rust and water**-Which protects the components and enhances their life
- **Possesses good load bearing ability**- Making grease suitable for hub greasing of heavy trucks, trailers etc.
- **Provides enhanced bearing life**- Hence a longer greasing interval in comparison to other conventional greases

Performance Level

- Proprietary Grade

Technical Specifications

Characteristics	Test Method	MAK LL 3 GREASE
Colour and Appearance	Visual	Florescent Green in Color, Smooth and Homogeneous
Type of Thickener	--	Lithium complex based
Worked penetration , 60 stokes	ASTM D 217	235
Drop Point, °C	ASTM D 2265	255
Thermal Stability, % wt. loss	ASTM D 6184	2.1
Base Oil K.V. at 100°C, cSt	ASTM D 445	18 - 20
Resistance to water washout at 80°C, % wt loss, max.	ASTM D 1264	2
Emcor Rust Test	ASTM D 6138	0,0
Wheel Bearing test Leakage by mass, gms Other Observations	ASTM D 1263	1.1 No deposits
Copper Corrosion at 100°C for 24 hrs.	ASTM D 4048	Negative
Four-Ball Weld Load, Kg	IP 239	250

All mentioned values are typical which may vary from batch to batch

Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept vertically and should be kept away from dusty or heated areas.
- Lid should not be left open and during handling any contact with dust must be avoided
- Containers used for grease transport should be clean and exclusive

Health & Safety

This grade is not hazardous under normal conditions of use. For further guidance Material Safety Data Sheet (MSDS) may be referred

Advice

For any further advice on applications or otherwise, please contact the nearest Bharat Petroleum territory office or Technical Services department at the address given below

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