

# LICAL MS 2



Grease



**Multi purpose extreme pressure lithium/calcium grease with 3% of MoS<sub>2</sub>.**

## APPLICATIONS

**Multi purpose EP grease Heavy load**

**General Lubrication**

**Recommendation**

- **LICAL MS 2** is a EP multi purpose grease, formulated for the lubrication of various shock loaded or vibrating applications operating in wet, dusty and/or dry conditions in particular in mining industry.
- **LICAL MS 2** is also suitable as EP multi purpose grease in “off road” applications where water is in frequent contact with the grease, e.g. pin-bushings, crown, and caterpillar wheels on excavators.
- **LICAL MS 2** is suitable for boundary lubrication at high pressures and high temperatures. In case of accidental overheating, the presence of molybdenum disulfide will guarantee good lubrication, and avoid any jamming or sticking.
- Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system or cartridges.

## SPECIFICATIONS

- ISO 6743-9: L-XBCHB 2
- DIN 51 502: KPF2K -20

## ADVANTAGES

**Durable film**  
**Miscible**  
**Mechanical stability**  
**Thermal stability**  
**No harmful substances**

- **LICAL MS 2** forms a durable lubrication film, resulting in reduction of maintenance and down-time costs.
- Miscible with most other conventional soap greases.
- Excellent mechanical stability avoiding ejection or loss of consistency during operation.
- Excellent adhesion to metal.
- Good thermal stability, leading to high resistance to temperature variations.
- **LICAL MS 2** does not contain lead, or other heavy metals considered harmful to human health and the environment.

TYPICAL CHARACTERISTICS	METHODS	UNITS	LICAL MS 2
Soap/thickener		-	Lithium/ Calcium
NLGI grade	ASTM D 217/DIN 51 818	-	2
Color	Visual	-	Grey
Appearance	Visual	-	Smooth
MoS <sub>2</sub> content	%	-	3
Operating temperature range		°C	- 20 to 130
Penetration at 25°C	ASTM D 217/DIN51 818	0.1 mm	265 - 295
Four ball weld load	DIN 51 350-4	daN	420-440
Anti-rust performance SKF- EMCOR	DIN 51 802/IP220/NFT 60-135/ISO 11007	rating	0 - 0
Dropping point	IP 396/DIN ISO 2176	°C	> 190
Kinematic viscosity of the base oil at 40°C	ASTM D 445/DIN 51 562-1/ISO 3104/IP71	mm <sup>2</sup> /s (cSt)	210

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS**  
**Industrie & Spécialités**  
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LICAL MS 2  
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.  
A material safety data sheet conforming to the regulations in use in the E.C. is obtainable via your commercial adviser [www.quick-fds.com](http://www.quick-fds.com).