

MOLYDUVAL

Long-Life LM 1



Water Resistant Multipurpose Grease

A light brown color multipurpose heavy duty grease for long time lubrication under high load, especially recommended for the lubrication of heavy duty plain and rolling element bearings operating under severe conditions including shock loading and wet environments.

It is based on a Lithium-12-Hydroxystearate soap and mineral oil. The product contains antiwear and extreme pressure additives, anti-oxidants and corrosion inhibitors. It also contains a small amount of polymer to enhance adhesion. Its anti-corrosion properties ensure adequate protection for bearings subjected to considerable quantities of water.

Characteristics

- soft and smooth
- long-time stable, effects long life-time and low cost
- good walking resistance
- relative good compatible with many usually used sealants
- very good water resistance
- good tackiness
- free of acids
- excellent oxidation stability

Applications

- for bearings in automotive
- for spindles
- for heavy dutied slide surfaces in optics and precision and electrical engineering
- for anti-friction bearings in paper production and textile industry
- for small gear boxes
- for bearings in agriculture in mining equipment
- for bearings of excavators, agricultural and construction machines, cranes
- for anti-friction bearings in pumps
- for hooks, sleeve elements, rolls, joints, clutches
- for sleeve- and anti-friction bearings especially in humid surroundings or in danger of water flood

Technical Datas

Color		brown
Base Fluid		Min
Name		ISO-L-XCCFB1
Name		KP1K-30
Consistency Class NLGI		1
Viscosity Base Fluid, 40°C	mm ² /s	220
Density 15°C	kg/m ³	930
Temperature Range	°C	-30 -> +130
Temperature Range shortly up to	°C	150
Dropping Point	°C	180
Flow pressure -30°C	hPa (mbar)	1400
Water Resistance Static	Grade	1-90
Water Resistance Dynamic	Grade	1-80
Wear Protection VKA welding load	N	2600
Corrosion Protection Emscor distilled water	Grade	0-0
Corrosion Protection Emscor, WWO, Salt Water	Grade	2-2

For further information, please see our website <https://www.solano-industries.com/en/>

The content of this manual is based on our current knowledge and experience in the development and manufacture of lubricants. Because of the complexity of tribological systems, the effect of our products depends on many parameters, which we cannot assess and which influence we cannot evaluate. For this reason general statements about the function of our products are not possible. The information in this manual, therefore, contains non-binding guidelines, which should give the technical trained reader information on possible applications. The information in this manual does not include property assurances or warranties or guarantees to the properties or suitability of this product in a specific application. Prior to its use it is absolutely necessary to test this product in the application to ensure that the product and its use is safe, economical and fully suitable. It should proceed with due diligence. We reserve the right to change the information in this manual at any time and without notice. All previous versions of this manual are no longer valid. Updating : 29.08.2025

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Technical Datas

Corrosion Protection copper	Grade	1-100
Pack Size tube 100 g		+
Pack Size cartridge 400 g		+
Pack Size round box 1 kg		+
Pack Size pail 18 kg		+
Pack Size drum 180 kg		+

The indicated service temperatures are guide values depending on the lubricants composition and on the application. They may vary in case of special influences or ongoing use.

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