

TECHNICAL DATA SHEET | GREASE

Petronas Grease LiCa MG HL

Extreme Heavy Duty Lithium Calcium Grease Fortified with Friction Reduction Additives



Extreme
Pressure



Heavy
Loads



Corrosion
Protection



Water
Resistant



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Description

PETRONAS Grease LiCa MG HL is a smooth textured, functional polymer based dual thickened lithium-calcium, extreme heavy duty grease of NLGI 2 consistency, which combines the performance advantages of both lithium and calcium greases. It contains Extreme Pressure (EP) additives, film thickness enhancement polymers to improve boundary lubrication scenarios, oxidation, rust and corrosion inhibitors and is fortified with proprietary dual solid friction reduction additives. Whilst providing exceptional wear protection, excellent water washout and spray off resistance, along with rust inhibition, it can be dispensed at low temperatures and provides long life in applications operating at elevated temperatures. It may be used in most applications requiring an EP NLGI 2, extreme heavy duty grease recommended for long-term use in equipment with an operating temperature range of -20°C to 130°C.

Whilst it is generally compatible with all lithium based greases, advice should be obtained before mixing it in applications containing other greases.

Benefits & Features

- Excellent pumpability across operating temperature range.
- Extreme shock load capability.
- Highly resistant to water washout and spray off.
- Multi application convenience.
- Superior wear, oxidation and rust protection.
- Dual solid lubricants for reduced friction and energy savings.
- Long service life and reduced re-lubrication frequencies.

Application

PETRONAS Grease LiCa MG HL is recommended for use as chassis grease and it is particularly suitable for "off-road" applications in civil engineering (pin and bush) and agriculture. Further applications include lubrication of industrial plain and anti-friction bearings where severe or shock loads are experienced.

It is highly effective in applications involving oscillating or limited relative motion, where fretting corrosion is likely to occur. It is also suitable for use in constant velocity joints (CVJ), machine tools, vibrating shafts and sliding mechanisms.

Developed and field tested a range of OEM equipment such as CAT, Bell, Hitachi, Sumitomo and Komatsu.

Operating temperature range from -20°C to +130°C.

Performance Level

Meets or exceeds the following Industry Standards:

- DIN 51502, KPF2K-20
- ISO 12924, L-XB(F)CHB2

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Typical Physical Characteristics

PETRONAS GREASE LICA MG HL			
PARAMETERS	METHODS	UNITS	TYPICAL VALUES
DIN Classification	DIN 51502	-	KPF2K-20
ISO Classification	ISO 12924	-	L-XB(F)CH2
NLGI Grade	ASTM D217	-	2
Thickener Type	-	-	Lithium Calcium
Colour	Visual	-	Dark Grey
Base Oil Type	-	-	Mineral
Penetration, @ 25°C Worked	ASTM D217	0.1 mm	280
Dropping Point	IP 396	°C	190
Viscosity of Base Oil @ 40°C	ASTM D445	cSt	670
4-Ball Weld Load	DIN 51350:4	N	4600
20,000 Strokes Worked Penetration	ASTM D217	% Change	10
Shell Roll Stability – 24hrs	ASTM D217	% Change	10
Molybdenum Disulphide Content	Calculated	%	2
Graphite content	Calculated	%	3
Density	IP PM-CS/03	g/ml	0.97

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to PETRONAS' specification, variations in these characteristics may occur.

11.2021

Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water. For further detail regarding storage, safe handling, and disposal of product, please refers to product SDS.

Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either Engen or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortuous action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information.

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