

# PETRONAS GREASE LiCa MG XHL

## Premium Performance Extreme Pressure Lithium Calcium Grease

PETRONAS Grease LiCa MG XHL is an extreme pressure Lithium Calcium grease with dual solid friction reducing additives specially developed for applications requiring heavy duty grease for long-term of use.

Formulated with selected mineral base oils enhanced with Lithium calcium soap, advanced extreme pressure, anti-oxidant, anti-rust, Molybdenum Disulphide, Graphite and corrosion inhibitor additives. PETRONAS Grease LiCa MG XHL provides excellent load carrying, wear protection, water washout and spray off resistance in applications operating in wet environments and elevated temperatures.

PETRONAS Grease LiCa MG XHL meets or exceeds key industrial specifications.

### Applications

PETRONAS Grease LiCa MG XHL is recommended for use in:

- applications include lubrication of industrial plain and anti-friction bearings where severe or shock loads and low speeds are experienced
- applications where oscillating or limited relative motion and fretting corrosion is likely to occur
- machine parts where high loads, vibrating shafts and sliding mechanisms such as Pin/bushes and heavy duty slideways

Note: PETRONAS Grease LiCa MG HL is recommended for operating temperature range of -20°C to +120°C.

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### Features and Benefits

Features	Benefits
Excellent pumpability	Excellent performance where low temperature performance is required
Excellent load carrying capacity	Contains special solid additives which enable the grease to withstand heavy shock loads without losing the lubricant film
High rust & corrosion protection	Protects bearing and metal surfaces against rust and corrosion even when the grease is contaminated with water
High thermal and oxidation stability	Has high oxidation resistance and can withstand high operating temperatures without hardening or forming bearing deposits
High resistance to water wash-out and spray off	Equipment protection and good lubrication even in presence of water
High friction reduction capabilities	Dual solid lubricants reduce friction and improve equipment reliability.

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### Typical Properties

Characteristic	Method	Specification	MG XHL
Thickener Type	-	Lithium Calcium	Lithium Calcium
NLGI	ASTM D217	2	2
Color	Visual	Black	Black
Worked Penetration, mm/10	ASTM D217	265 - 295	280
Worked Penetration 100.000x, Penetration Change, mm/10, Max.	ASTM D217	+20	+15
Oil Separation, Mass %, Max.	ASTM D1742	6	5
Dropping Point, °C, Min.	ASTM D2265	180	190
Four Ball Wear, mm, Max.	ASTM D2266	0.50	0.40
Four Ball EP Weld Point, Min.	ASTM D2596	800	800
Roll Stability, % of Penetration Change, Max.	ASTM D1831	10	9
Water Washout, %, Max.	ASTM D1264	5	3
Rust Protection, rating	ASTM D1743	Pass	Pass
Base Oil Viscosity @40°C, cSt	ASTM D445	920 - 940	930
Molybdenum Disulfide, Mass %	-	2	2
Graphite, Mass %	-	3	3

All technical data is provided for reference only / SS is available upon request including quality control limits

### Performance Levels

- DIN 51502 KPF2K-20
- ISO 12924 XBCHB2

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### 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 refer to product SDS or contact us at: [www.pli-petronas.com](http://www.pli-petronas.com)

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