

## Petronas Grease LiCa MG HL

### Extreme Heavy Duty Lithium Calcium Grease Fortified with Friction Reduction Additives

**Heavy Loads****Water Resistant****Corrosion Protection**

#### 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.

#### Applications

**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 CAT, Bell, Hitachi, Sumitomo and Komatsu.

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

#### Features & Benefits

- 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.

### Typical Properties

|                                   | Test Method | Unit     | Petronas Grease<br>LiCa MG HL |
|-----------------------------------|-------------|----------|-------------------------------|
| DIN classification                | DIN 51502   |          | KPF2K-20                      |
| ISO classification                | ISO 12924   |          | L-XB(F)CHB2                   |
| NLGI Grade                        | ASTM D217   |          | 2                             |
| Thickener Type                    |             |          | Lithium Calcium               |
| Colour                            | Visual      |          | Dark Grey                     |
| Penetration, @ 25°C Worked        | ASTM D217   | 0.1 mm   | 280                           |
| Dropping Point                    | IP 396      | °C       | 190                           |
| Base Oil Type                     |             |          | Mineral                       |
| Viscosity of Base Oil @ 40°C      | ASTM D445   | cSt      | 430                           |
| 4-Ball Weld Load                  | DIN 51350:4 | kg       | 380 (min)                     |
| 20,000 Strokes Worked Penetration | ASTM D217   | % Change | 10                            |
| Shell Roll Stability – 24hrs      | ASTM D1831  | % Change | 10                            |
| Molybdenum Disulphide Content     | Calculated  | %        | 2                             |
| Graphite content                  | Calculated  | %        | 3                             |
| Density                           | IP PM-CS/03 | g/ml     | 0.97                          |

### Product Pack Info

- Petronas Grease LiCa MG HL in 750kg IPS Bag: Material code: 19891
- Petronas Grease LiCa MG HL in 180kg drum: Material code: 19892
- Petronas Grease LiCa MG HL in 50kg keg: Material code: 19893
- Petronas Grease LiCa MG HL in 18kg pail: Material code: 19894
- Petronas Grease LiCa MG HL in 24x400g carton: Material code: 19859

### Health & Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.