

PETRONAS GREASE LiCa GEP

Premium Performance Extreme Pressure Lithium Calcium Grease

PETRONAS Grease LiCa GEP is a premium performance extreme pressure Lithium Calcium grease with solid additives specially developed for lubrication of open gears, racks, chains, wire ropes, support rollers, slides and sprockets.

Formulated with selected mineral base oils enhanced with functional polymer and thickened Lithium Calcium soap, advanced extreme pressure, anti-oxidant, anti-rust and corrosion inhibitors additives. PETRONAS Grease LiCa GEP provides excellent load carrying protection, water washout, spray off resistance and long life in applications operating at elevated temperatures.

Applications

PETRONAS Grease LiCa GEP is recommended for use in:

- open gears, racks, chains, wire ropes, support rollers, tracks, slides and sprockets
- steel, cement, paper, chemical, mining, and other industries requiring heavy duty lubrication
- fifth wheel lubrication in the automotive industry
- rough plain bearings, slides, conveyor chains, and bearings of boiler soot-blowers

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

Features and Benefits

| Features | Benefits |
|--------------------------------------|---|
| Excellent pumpability | Excellent performance where low temperature performance is required |
| Excellent load carrying capacity | Contain special EP additives which enable the grease to withstand heavy shock loads without losing the lubricant film |
| High rust & corrosion protection | Protect metal surfaces against corrosion, even when the grease is contaminated with water |
| High resistance to water wash-out | Equipment protection and good lubrication even in presence of water |
| High friction reduction capabilities | Has friction reducing additives for extra protection on sliding metal surfaces |

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Typical Properties

| Characteristic | Method | Specification | 2.5 |
|--|------------|-----------------|-----------------|
| Thickener Type | - | Lithium Calcium | Lithium Calcium |
| NLGI | ASTM D217 | 2.5 | 2.5 |
| Color | Visual | Dark Grey | Dark Grey |
| Worked Penetration, mm/10 | ASTM D217 | 250 – 265 | 255 |
| Worked Penetration 100.000x, mm/10, Max. | ASTM D217 | +25 | +20 |
| Oil Separation, Mass %, Max. | ASTM D1742 | 6 | 3 |
| 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 D2266 | 400 | 400 |
| Roll Stability, mm/10, % Change | ASTM D1831 | 10 | 8 |
| Wheel Bearing Leakage, grams, Max. | ASTM D4290 | 10 | 8 |
| Water Washout, %, Max. | ASTM D1264 | 5 | 2 |
| Rust Protection, rating, Max. | ASTM D1743 | Pass | Pass |
| Base Oil Viscosity @40°C, cSt | ASTM D445 | 490 - 510 | 500 |
| Graphite, Mass % | - | 10 | 10 |

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

Performance Levels

- DIN 51502 OGP2.5K-20
- ISO 12924 XBCIB2.5

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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

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