

PETRONAS GREASE Li 2

Non-EP Lithium Greases

PETRONAS Grease Li 2 is a non-EP Lithium grease specially developed for industrial general-purpose applications.

Formulated with selected mineral base oils enhanced with Lithium 12-hydroxystearate soap, polymers, anti-oxidant, anti-rust and corrosion inhibitor additives. PETRONAS Grease Li 2 provides high chemical stability, enhanced structural properties, and good resistance to water washing.

PETRONAS Grease Li 2 meets or exceeds key industrial specifications.

Applications

PETRONAS Grease Li 2 is recommended for use in:

- anti-friction bearings including the rotating outer race and vertical shaft configurations
- plain bearings up to 3600 rpm, machine tools and a variety of marine applications
- electric motor bearings

Note: PETRONAS Grease Li 2 is recommended for operating temperature range of -30°C to +120°C (Max. +130°C).

Features and Benefits

| Features | Benefits |
|--------------------------------------|---|
| Very good pumpability | Very good performance where low temperature performance is required |
| Very good anti-wear protection | Protects equipment components from excessive wear and provides long equipment life |
| High rust & corrosion protection | Protects bearing 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 thermal and oxidation stability | Has good oxidation resistance and can withstand high operating temperatures without hardening or forming bearing deposits |

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Typical Properties

| Characteristic | Method | Specification | Li 2 |
|--|---------------|---------------|---------|
| Thickener Type | - | Lithium | Lithium |
| NLGI | ASTM D217 | 2 | 2 |
| Color | Visual | Brown | Brown |
| Worked Penetration, mm/10 | ASTM D217 | 265 – 295 | 285 |
| Worked Penetration 100.000x, Penetration Change, mm/10, Max. | ASTM D217 | +30 | +15 |
| Oil Separation, Mass %, Max. | ASTM D1742 | 6 | 4 |
| Dropping Point, °C, Min. | ASTM D2265 | 180 | 190 |
| Four Ball Wear, mm, Max. | ASTM D2266 | 0,60 | 0,50 |
| Four Ball EP Weld Point, Min. | ASTM D2596 | 160 | 160 |
| SKF R2F B at 120°C | SKF | Pass | Pass |
| Flow Pressure at -30°C, mbar, Max. | DIN 51805 mod | 1400 | <1400 |
| Roll Stability, % of Penetration Change, Max. | ASTM D1831 | 10 | 8 |
| Water resistance at 90°C, Max. | DIN 51807:1 | 3 | 1 |
| Water Washout at 38°C, %, Max. | ASTM D1264 | 10 | 6 |
| Emcor Test (Dist. Water), Max. | ASTM D6138 | 0-0 | 0-0 |
| Rust Protection, rating | ASTM D1743 | Pass | Pass |
| Base Oil Viscosity @40°C, cSt | ASTM D445 | 100 - 120 | 110 |

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

Performance Levels

- DIN 51502 K2K-30
- ISO 12924 L-XC(F)CHA2

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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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