

# 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](http://www.pli-petronas.com).

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