

PETRONAS GREASE LiX MEP

Extreme Pressure Lithium Complex Grease

PETRONAS Grease LiX MEP is an extreme pressure Lithium complex grease with solid additives specially developed for lubrication of heavy-duty applications where good adhesive properties are required.

Formulated with selected mineral base oils enhanced with Lithium complex soap, advanced extreme pressure, antioxidant, anti-rust and corrosion inhibitor additives. PETRONAS Grease LiX MEP provides excellent high temperature performance, high load carrying capabilities and excellent adhesiveness qualities which makes it ideal for components where there is oscillating or rotating motion.

PETRONAS Grease LiX MEP meets or exceeds key industrial specifications.

Applications

PETRONAS Grease LiX MEP is recommended for use in:

- mobile and off road equipment components, such as chassis, highly loaded kingpins, U-joints, bucket pins, fifth wheels and open gears
- heavy duty applications in mining, cement, power generation and steel plant applications where severe operating and climatic conditions are experienced

Note: PETRONAS Grease LiX MEP is recommended for operating temperature range of -20°C to +140°C (Max. +180°C).

Features and Benefits

Features	Benefits
Very good pumpability	Very good performance where low temperature performance is required
Excellent adhesive and cohesive properties	Excellent grease tenacity, helps reduce leakage and extend re-lubrication intervals, reducing maintenance costs
Excellent load carrying capacity	Contains special EP additives which enables the grease to withstand heavy loads without losing the lubricant film
High rust & corrosion protection	Protect 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	LiX MEP
Thickener Type	-	Lithium Complex	Lithium Complex
NLGI	ASTM D217	2	2
Color	Visual	Grey	Grey
Worked Penetration, mm/10	ASTM D217	265 - 295	282
Worked Penetration 100.000x, Penetration Change, mm/10, Max.	ASTM D217	+20	+15
Oil Separation, Mass %, Max.	ASTM D1742	5	4
Dropping Point, °C, Min.	ASTM D2265	260	265
Four Ball Wear, mm, Max.	ASTM D2266	0,50	0,40
Four Ball EP Weld Point, Min.	ASTM D2596	315	315
Flow Pressure at -20°C, mbar, Max.	DIN 51805 mod	1400	<1400
Roll Stability, % of Penetration Change, Max.	ASTM D1831	10	8
Wheel Bearing Leakage, grams, Max.	ASTM D4290	8	7
Water Washout at 38°C, %, Max.	ASTM D1264	10	5
Water resistance at 90°C, Max.	DIN 51807:1	3	1
Water Spray off, %, Max.	ASTM D4049	30	20
Rust Protection, rating	ASTM D1743	Pass	Pass
Emcor Test (Dist. Water), rating, Max.	ASTM D6138	2-2	0-0
Base Oil Viscosity @40°C, cSt	ASTM D445	390 - 410	400
Molybdenum Disulfide, Mass %	-	3	3

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

Performance Levels

- DIN 51502 KPF2N-20
- ISO 12924 L-XB(F)DIB2

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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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