Technical Data Sheet
Revision Date: 28.08.2019

PETRONAS GREASE LiX SYN 1/1500

Synthetic Lithium Complex Grease

PETRONAS Grease LiX SYN 1/1500 is a synthetic Lithium complex grease specially developed for heavily loaded bearings in low speed applications, at elevated temperatures, in wet and corrosive environments.
Formulated with high viscosity synthetic base oils enhanced with Lithium complex soap, advanced extreme pressure, anti-wear, antioxidant, anti-rust and corrosion inhibitor additives. PETRONAS Grease LiX SYN 1/1500 provides excellent temperature performance, load carrying capabilities, wear protection, resistance to vibrations and shock loads, high degree of mechanical stability enhances the performance in vibrating housings and prolongs relubrication intervals.

PETRONAS Grease LiX SYN 1/1500 meets or exceeds key industrial specifications.

Applications

PETRONAS Grease LiX SYN 1/1500 is recommended for use in:

- Bearings operating at extremely low speeds, under heavy loads, and at high temperatures

Note: PETRONAS Grease LiX SYN 1/1500 is recommended for operating temperature range of -40°C to +150°C (Max. +220°C).

Features and Benefits

Features	Benefits
High pumpability	High performance where low temperature performance is required
Excellent load carrying capacity	Contains special EP additives which enables the grease to withstand heavy loads without losing the lubricant film
Shock load protection	Reduced wear under heavy or shock loading and vibration providing equipment reliability
Anti-wear protection	Protects equipment components from excessive wear and provides long equipment life
Excellent 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
Excellent thermal and oxidation stability	Has excellent oxidation resistance. Their consistency will not alter in storage and they withstand high operating temperatures without hardening or forming bearing deposits
Mechanical stability	A highly stable grease with little or no change to consistency when worked in the lubrication of wheel bearings.

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Typical Properties

Characteristic	Method	Specification	LiX SYN 1/1500
Thickener Type	-	Lithium Complex	Lithium Complex
NLGI	ASTM D217	1	1
Color	Visual	Beige	Beige
Worked Penetration, mm/10	ASTM D217	310 - 340	320
Worked Penetration 100.000x, Penetration Change, mm/10, Max.	ASTM D217	+15	+8
Oil Separation, Mass %, Max.	ASTM D1742	5	2
Dropping Point, °C, Min.	ASTM D2265	260	281
Four Ball Wear, mm, Max.	ASTM D2266	0,70	0,60
Four Ball EP Weld Point, Min.	ASTM D2596	315	315
SKF R2F B at 150°C	SKF	Pass	Pass
Flow Pressure at -40°C, mbar, Max.	DIN 51805 mod	1400	<1400
Roll Stability, % of Penetration Change, Max.	ASTM D1831	10	4
Wheel Bearing Leakage, grams, Max.	ASTM D4290	8	3
Water Washout at 79°C, %, Max.	ASTM D1264	10	5
Water resistance at 90°C, Max.	DIN 51807:1	3	1
Rust Protection, rating	ASTM D1743	Pass	Pass
Emcor Test (Salt Water), rating, Max.	ASTM D6138	2-2	0-0
Base Oil Viscosity @40°C, cSt	ASTM D445	1700 - 1800	1750

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

Performance Levels

- DIN 51502 KPHC1N-40
- ISO 12924 L-XD(F)DIB1

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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.

Important Note

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