

PETRONAS GREASE Li PT

Lithium Grease

PETRONAS Grease Li PT is a Lithium grease specially developed as a post tensioning grease within the construction industry. It features controlled oil bleed to prevent oil separation on the tendon manufacture.

Formulated with selected mineral base oil enhanced with advanced Lithium 12-hydroxystearate soap, anti-oxidant, anti-rust and corrosion inhibitors additives. PETRONAS Grease Li PT provides a high resistance to oxidation, corrosion protection and salt water resistance.

It prevents corrosion of un-bonded post-tensioning strand in the presence of moisture and air in voids along the cable sheaths.

PETRONAS Grease Li PT meets or exceeds key industrial specifications.

Applications

PETRONAS Grease Li PT is recommended for use in:

- as a post tensioning grease within the construction industry

Note: PETRONAS Grease Li EP 2 is recommended for operating temperature range of -40°C to +120°C (Max. +130°C).

Features and Benefits

Features	Benefits
High rust & corrosion protection	High protection against corrosion, even when the grease is contaminated with water, especially sea water
High resistance to water wash-out	Has a high resistance to water wash-out
High oxidation stability	High resistance to oxidation. The consistency will not alter in storage
High controlled oil bleed	Has a high controlled oil bleed and does not separate under storage

Technical Data Sheet

Revision Date: 28.08.2019 Rev. 03



PETRONAS GREASE Li PT

Lithium Grease

Typical Properties

Characteristic	Method	Specification	Li PT		
Thickener Type	-	Lithium	Lithium		
NLGI	ASTM D217	1.5	1.5		
Color	Visual	Brown	Brown		
Worked Penetration, mm/10	ASTM D217	290 - 320	300		
Worked Penetration 100.000x, Penetration Change, mm/10, Max.	ASTM D217	+20	+13		
Oil Separation, Mass %, Max.	ASTM D1742	6	4		
Dropping Point, °C, Min.	ASTM D2265	180	190		
Oxidation Stability, kPa, Max.	ASTM D942	50	30		
100 hours				130	110
400 hours				220	200
1000 hours					
Emcor Test (Distilled Water), rating	ASTM D6138	0-0	0-0		
Rust Protection, rating, Max.	ASTM D1743	Pass	Pass		
Flow Pressure at -40°C, mbar, Max.	DIN 51805 mod	1400	<1400		
SKF R2F B at 120°C	SKF	Pass	Pass		
Base Oil Viscosity @40°C, cSt	ASTM D445	130 - 150	140		

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

Performance Levels

- DIN 51502 K1.5K-40
- ISO 12924 L-XD(F)CHA1.5

www.pu-petronas.com

ALL RIGHTS RESERVED. THIS PRODUCT DATA SHEET (INCLUDING NAME, INFORMATION, LOGOS, IMAGES, PICTURES AND ICONS) WHICH RELATES OR REFERS TO PETRONAS LUBRICANTS INTERNATIONAL (PLI) IS THE SOLE AND ABSOLUTE PROPERTY OF PLI AND/OR ITS HOLDING COMPANY AND SHALL BE TREATED AS PRIVATE AND CONFIDENTIAL. NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR ANY MEANS (ELECTRONIC, MECHANICAL, RECORDING OR OTHERWISE) WITHOUT THE PERMISSION OF PLI AND/OR ITS HOLDING COMPANY.

PETRONAS GREASE LI PT

Lithium Grease

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

The word PETRONAS, the PETRONAS logo and such other related trademarks and/or marks used herein are trademarks or registered trademarks of PETRONAS Lubricants International Sdn. Bhd. ("PLISB"), or its subsidiaries or related Holding Corporation under license unless indicated otherwise. The PLI Documents and the information contained herein are believed to be accurate as of the date of printing. PLISB makes no express or implied representation or warranties as to its accuracy or completeness or information in or any transaction performed. The PLI Documents and information provided are based on standard tests under laboratory conditions and is given only as a guide. Users are advised to ensure that they refer to the latest version of these PLI Documents. It is the responsibility of the users to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations imposed by the respective local authorities.

Safety Data Sheets are available for all our products and should only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either PLISB or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortuous action, in connection with or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information. All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representatives in the event you require any further information.