

PETRONAS TUTELA WB GREASE

Premium Performance Extreme Pressure Lithium Complex Grease

PETRONAS TUTELA WB Grease is a premium performance extreme pressure Lithium complex grease specially developed for the transport industry and its wheel bearing applications.

Formulated with selected mineral base oils enhanced with Lithium Complex 12-hydroxystearate soap, polymers, advanced extreme pressure, anti-oxidant, anti-rust and corrosion inhibitor additives. PETRONAS TUTELA WB Grease provides excellent structural and chemical stability, high resistance to water wash out and provides excellent protection against wear and shock loads.

PETRONAS TUTELA WB Grease meets or exceeds key industrial and automotive specifications.

Applications

PETRONAS TUTELA WB Grease is recommended for use in:

- rolling element bearings, especially in wheel bearings where high cyclic stresses and shock loads are encountered
- boat trailer wheel bearings in fresh and salt water environments
- general automotive applications such as steering and chassis fittings, grease cups and water pump bearings

Note: PETRONAS TUTELA WB Grease is recommended for operating temperature range of -20°C to +160°C. Short term exposure up to 200°C.

Features and Benefits

Features	Benefits
Excellent adhesive and cohesive properties	Excellent grease tenacity, helps reduce leakage and extend re-lubrication intervals, reducing maintenance costs
Excellent load carrying capacity	Contain special EP additives which enable the grease to withstand heavy shock loads without losing the lubricant film
Excellent shock load protection	Reduced wear under heavy or shock loading and vibration providing equipment reliability
Excellent rust & corrosion protection	Protect bearing surfaces against corrosion, even when the grease is contaminated with water
High resistance to water wash-out and spray off	Equipment protection and good lubrication even in presence of water
Good Mechanical Stability	A highly stable grease with little or no change to consistency when worked in the lubrication of wheel bearings.

PETRONAS TUTELA WB GREASE

Premium Performance Extreme Pressure Lithium Complex Grease

Typical Properties

Characteristic	Method	Specification	2.5
Thickener Type	-	Lithium Complex	Lithium Complex
NLGI	ASTM D217	2.5	2.5
Color	Visual	Green	Green
Worked Penetration, mm/10	ASTM D217	245 – 275	255
Worked Penetration 100.000x, mm/10, Max.	ASTM D217	+20	+15
Oil Separation, Mass %, Max.	ASTM D1742	5	3
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 D2266	315	315
Roll Stability, mm/10, % Change	ASTM D1831	10	8
Wheel Bearing Leakage, grams, Max.	ASTM D4290	8	3
Water Washout, %, Max.	ASTM D1264	8	1
Rust Protection, rating, Max.	ASTM D1743	Pass	Pass
Base Oil Viscosity @40°C, cSt	ASTM D445	530 - 550	540

All technical data is provided for reference only and all specification based on ASTM D4950 / SS is available upon request including quality control limits

Performance Levels

- DIN 51502 KP2.5N-20
- GC-LB
- ISO 12924 XBDIB2.5

PETRONAS TUTELA WB GREASE

Premium Performance Extreme Pressure Lithium Complex 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 is 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 information provided is 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 be 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 tortious action, in connection 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 representative in the event you require any further information.