

PETRONAS TUTELA SP

Extreme Pressure Lithium Automotive Grease

PETRONAS TUTELA SP Grease is an extreme pressure Lithium grease specially developed for automotive applications.

Formulated with selected mineral base oils enhanced with Lithium 12-hydroxystearate soap, advanced extreme pressure, anti-oxidant, anti-rust, molybdenum Disulphide and corrosion inhibitors. PETRONAS TUTELA SP Grease provides excellent load carrying capabilities, wear protection, excellent stability, and resistance to water wash-out.

PETRONAS TUTELA SP Grease meets or exceed key industrial specifications.

Applications

PETRONAS TUTELA SP Grease is recommended for use in:

- applications involving oscillating or limited relative motion and where fretting corrosion is likely to occur
- applications include chassis lubrication and grease lubricated universal joints (CV Joints)

Note: PETRONAS TUTELA SP Grease is recommended for operating temperature range of -20°C to +130°C.

Features and Benefits

Features	Benefits
High load carrying capacity	Contains special additives which enables the grease to withstand heavy shock loads without losing the lubricant film
Very good anti-wear protection	Protects equipment components from excessive wear and provides long equipment life
Excellent rust & corrosion protection	Protects bearing and metal surfaces against corrosion, even when the grease is contaminated with water
High thermal and oxidation stability	Has very good oxidation resistance and can 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.

PETRONAS TUTELA SP

Extreme Pressure Lithium Automotive Grease

Typical Properties

Characteristic	Method	Specification	SP
Thickener Type	-	Lithium	Lithium
NLGI	ASTM D217	2	2
Color	Visual	Grey	Grey
Worked Penetration, mm/10	ASTM D217	265 – 295	280
Worked Penetration 100.000x, Penetration Change, mm/10, Max.	ASTM D217	+15	+10
Oil Separation, Mass %, Max.	ASTM D1742	5	2
Dropping Point, °C, Min.	ASTM D2265	180	188
Four Ball Wear, mm, Max.	ASTM D2266	0.50	0.50
Four Ball EP Weld Point, Min.	ASTM D2596	250	250
Roll Stability, % of Penetration Change, Max.	ASTM D1831	10	8
Rust Protection, rating	ASTM D1743	Pass	Pass
Molybdenum Disulfide, Mass %	Calculated	-	1
Base Oil Viscosity @40°C, cSt	ASTM D445	140 - 160	150

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

Performance Levels

- DIN 51502 KPF2K-20
- ISO 12924 XCCIB2

PETRONAS TUTELA SP

Extreme Pressure Lithium Automotive 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.