

PETRONAS GREASE PU

Polyurea Grease

PETRONAS Grease PU is a Polyurea grease specially developed for lubrication of electric motor bearings, and high-speed pumps.

Formulated with high viscosity mineral base oils enhanced with Polyurea thickeners, advanced antiwear, antioxidant, anti-rust, and corrosion inhibitor additives. PETRONAS Grease PU provides excellent mechanical stability over a wide temperature range and low oil bleed.

PETRONAS Grease PU meets or exceeds key industrial specifications.

Applications

PETRONAS Grease PU is recommended for use in:

- lubrication of electric motor bearings, and high-speed pumps
- high temperature, high speed lightly loaded bearings
- for applications with long operational hours and extended re-greasing intervals

Note: PETRONAS Grease PU is recommended for operating temperature range of -20°C to +160°C (Max. +220°C).

Features and Benefits

Features	Benefits
Excellent rust & corrosion protection	Protects bearing surfaces against rust and corrosion, even when the grease is contaminated with water
Excellent thermal and oxidation stability	Has excellent oxidation resistance and can withstand long operating hours at elevated temperatures without hardening or forming bearing deposits
High antiwear protection	Protects motor bearings from excessive wear and provides long equipment life
Excellent oil bleed	Has excellent low bleed properties which enables the grease to operate for extended hours
High adhesive and cohesive properties	High grease tenacity which helps reduce leakage and extend re-lubrication intervals, reducing maintenance costs

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Typical Properties

Characteristic	Method	Specification	PU
Thickener Type	-	Polyurea	Polyurea
NLGI	ASTM D217	2	2
Color	Visual	Blue	Blue
Worked Penetration, mm/10	ASTM D217	265 - 295	280
Dropping Point, °C, Min.	ASTM D2265	260	265
Four Ball Wear, mm, Max.	ASTM D2266	0,50	0,50
Four Ball EP Weld Point, Min.	ASTM D2596	200	200
FAG FE-9 (1500/6000/160) A, h	DIN 51821	>100	>100
Flow Pressure at -20°C, mbar, Max.	DIN 51805 mod	1400	<1400
Water Washout at 38°C, %, Max.	ASTM D1264	10	3
Water resistance at 90°C, Max.	DIN 51807:1	3	1
Rust Protection, rating	ASTM D1743	Pass	Pass
Emcor Test (Dist. Water), rating, Max.	ASTM D6138	1-1	0-0
Base Oil Viscosity @40°C, cSt	ASTM D445	90 - 110	100

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

Performance Levels

- DIN 51502 KP2P-20
- ISO 12924 L-XB(F)EHA2

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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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