Technical Data Sheet
Revision Date: 28.08.2019

PETRONAS GREASE CLAY MG

High Temperature for Heavy Duty with Organophilic Bentonite Grease with Solid Lubricant and High Base Oil Viscosity

PETRONAS Grease CLAY MG is a high temperature Organophilic Bentonite grease with solid lubricant specially developed for heavy duty industrial equipment with slow speed plain bearings where the capability of conventional greases may be exceeded by either continuous high temperature or cyclic conditions from normal to extremely high temperatures.
Formulated with selected mineral base oils enhanced with Organophilic Bentonite clay thickened, advanced anti-oxidant, anti-rust, Molybdenum Disulphide, Graphite, and corrosion inhibitor additives. PETRONAS Grease CLAY MG provides excellent high temperature performance, high load shock load capabilities.

PETRONAS Grease CLAY MG meets or exceeds key industrial specifications.

Applications

PETRONAS Grease CLAY MG is recommended for use in:

- lubrication of high temperature applications where conventional soap thickened greases will not perform
- industrial applications where high loads and very slow movements are present
- sugar mill bearings, open gears, cement mill journal bearings, furnace door gears, oven and slow speed cams

Note: PETRONAS Grease CLAY MG is recommended for operating temperature range of -10°C to +120°C (Max. +130°C).

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Features and Benefits

Features	Benefits
Excellent anti-wear protection	Protects equipment components from excessive wear at high temperatures and provides long equipment life
Excellent load carrying capacity	Contains special additives which enables the grease to withstand heavy loads without losing the lubricant film
Friction reduction capabilities	Has friction reducing solid additives for extra protection on sliding metal surfaces
High rust & corrosion protection	Protects bearing surfaces against rust and corrosion, even when the grease is contaminated with water
High resistance to water and steam wash-out	Equipment protection and good lubrication even in presence of water or steam
High thermal and oxidation stability	Has good oxidation resistance and can withstand high operating temperatures without hardening or forming bearing deposits
High oil bleed control	Has a high controlled oil bleed and does not separate under storage

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Typical Properties

Characteristic	Method	Specification	CLAY MG
Thickener Type	-	Clay	Clay
NLGI	ASTM D217	1	1
Color	Visual	Black	Black
Worked Penetration, mm/10	ASTM D217	310 - 340	325
Worked Penetration 100.000x, Penetration Change, mm/10, Max.	ASTM D217	+20	+15
Oil Separation, Mass %, Max.	ASTM D1742	6	4
Dropping Point, °C, Min.	ASTM D2265	Non-Melt	Non-Melt
Four Ball Wear, mm, Max.	ASTM D2266	0,50	0,50
Four Ball EP Weld Point, Min.	ASTM D2596	500	500
Flow Pressure at -10°C, mbar, Max.	DIN 51805 mod	1400	<1400
SKF R2F B at 140°C	SKF	Pass	Pass
Roll Stability, % of Penetration Change, Max.	ASTM D1831	20	10
Water Washout at 38°C, %, Max.	ASTM D1264	10	5
Water resistance at 90°C, Max.	DIN 51807:1	3	1
Emcor Test (Dist. Water), Max.	ASTM D6138	1-1	0-0
Base Oil Viscosity @40°C, cSt	ASTM D445	1450 - 1550	1500
Molybdenum Disulfide, Mass %	-	2	2
Graphite, Mass %	-	6	6

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

Performance Levels

- DIN 51502 OGF1K-10
- ISO 12924 L-XA(F)CHB1

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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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