

PETRONAS GREASE LICa GEP 0

Extreme Pressure Lithium Calcium Grease

PETRONAS Grease LiCa GEP 0 is an extreme pressure Lithium Calcium grease with solid additives specially developed for lubrication of open gears, racks, chains, wire ropes, support rollers, slides and sprockets.

Formulated with selected mineral base oils enhanced with functional polymer and thickened Lithium Calcium soap, advanced extreme pressure, anti-oxidant, Graphite, anti-rust and corrosion inhibitors additives. PETRONAS Grease LiCa GEP 0 provides excellent load carrying protection, water washout or spray off resistance in applications operating at elevated temperatures.

PETRONAS Grease LiCa GEP 0 meets or exceeds key industrial specifications.

Applications

PETRONAS Grease LiCa GEP 0 is recommended for use in:

- open gears, racks, chains, wire ropes, support rollers, tracks, slides and sprockets
- steel, cement, paper, chemical, mining, and other industries requiring heavy duty lubrication under extreme mechanical and environmental conditions such as shock loads, vibration
- applications involving oscillating or little relative movement, where fretting corrosion may be prevalent

Note: PETRONAS Grease LiCa GEP 0 is recommended for operating temperature range of -30° C to $+100^{\circ}$ C (Max. $+110^{\circ}$ C).

Features and Benefits

Features	Benefits		
Excellent pumpability	Excellent performance where low temperature performance is required		
Excellent load carrying capacity	Contains special additives which enable the grease to withstand heavy shock loads without losing the lubricant film		
High rust & corrosion protection	Protects metal surfaces against corrosion, even when the grease is contaminated with water		
High resistance to water wash-out	Equipment protection and good lubrication even in presence of water		
High friction reduction capabilities	Has friction reducing additives for extra protection on sliding metal surfaces		

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Typical Properties

Characteristic	Method	Specification	LiCa GEP 0
Thickener Type	_	Lithium	Lithium
		Calcium	Calcium
NLGI	ASTM D217	0	0
Color	Visual	Black	Black
Worked Penetration, mm/10	ASTM D217	355 - 385	370
Worked Penetration 100.000x, Penetration Change, mm/10, Max.	ASTM D217	+20	+20
Dropping Point, °C, Min.	ASTM D2265	180	190
Four Ball Wear, mm, Max.	ASTM D2266	0,60	0,60
Four Ball EP Weld Point, Min.	ASTM D2596	400	400
Roll Stability, % of Penetration Change, Max.	ASTM D1831	10	9
Flow Pressure at -30°C, mbar, Max.	DIN 51805 mod	1400	<1400
Water resistance at 90°C, Max.	DIN 51807:1	3	1
Water Washout at 38°C, %, Max.	ASTM D1264	10	8
Rust Protection, rating	ASTM D1743	Pass	Pass
Emcor Test (Dist. Water), Max.	ASTM D6138	1-1	0-0
Base Oil Viscosity @40°C, cSt	ASTM D445	510 - 530	520
Graphite, Mass %	_	10	10

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

Performance Levels

- DIN 51502 GPF0G-30
- ISO 12924 L-XC(F)BHB0

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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: <u>www.pli-petronas.com</u>.

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