

## Petronas Grease LiCa GEP 0

**Extreme Pressure Industrial grease fortified with friction reduction additives**



**Heavy Loads**



**Water Resistant**



**Corrosion Protection**

### Description

**Petronas Grease LiCa GEP 0** is a smooth-textured functional polymer based, dual thickened lithium-calcium grease which combine the performance advantages of both lithium and calcium greases. This is an extreme heavy duty (EP) grease that is fortified with solid friction reduction additives.

The grease resists water washing and spray off through the unique polymer based mixed soap thickener, making it ideal for outdoor applications as well as for indoor uses subjected to water splash and water washing with brine, mild acids and alkalis.

Whilst providing exceptional wear protection, excellent water washout and spray off resistance, along with rust inhibition, it can be dispensed at low temperatures and provides long life in applications operating at elevated temperatures.

**Petronas Grease LiCa GEP 0** is adhesive to metal surfaces and resist run-off and drip due to gravity or by centrifugal force. Additional ecological acceptable EP, Anti-wear, oxidation and corrosion additives ensures further equipment protection under a wide variety of applications.

### Applications

**Petronas Grease LiCa GEP 0** is recommended for the lubrication of open gears, racks, chains, wire ropes, rollers, tracks, slides, sprockets, etc. in the steel, cement, paper, chemical, mining, quarry and other industries requiring heavy duty lubrication under extreme mechanical and environmental conditions such as shock loads, vibration and contamination by dirt and water. The grease is also suitable for applications involving oscillating or little relative movement, where fretting corrosion may be prevalent - i.e. on construction equipment and turntables.

**Petronas Grease LiCa GEP 0** is intended primarily for open gear lubrication under severe load and adverse environmental conditions.  
Operating temperature grades are: - 20°C to +120°C.

**Petronas Grease LiCa GEP 0** is easily applied by brush, paddle or mechanical spray.

### Features & Benefits

- Reduced tooth wear due to good load carrying and antiwear properties.
- High film strength
- Good resistance to water washing, rust and corrosion.
- Easy application.
- Ecological acceptability

**Typical Properties**

	<b>Test Method</b>	<b>Unit</b>	<b>Petronas Grease LiCa GEP 0</b>
DIN Classification	DIN 51502		GPF0K-20
ISO Classification	ISO 12924		L-XB(F)CHB0
NLGI Grade	ASTM D217		0
Thickener Type			Lithium Calcium
Colour	Visual		Dark Grey
Penetration, @ 25°C Worked	ASTM D217	0.1 mm	370
Dropping Point	IP 396	°C	180 min
Base Oil Type			Mineral
Viscosity of Base Oil @ 40°C	ASTM D445	cSt	500
4-Ball Weld Load	DIN 51350:4	N	3200
4-Ball Wear Scar 40kg/1hr	DIN 51350:5	mm	0.6
20,000 Strokes Worked Penetration	ASTM D217	% Change	10
Shell Roll Stability – 24hrs	ASTM D1831	% Change	10
Water resistance at 90°C	DIN 51807:1		1
Water wash out at 38°C	ISO 11009		< 10 %
Graphite Content	Calculated	%	10
Density	IP PM-CS/03	g/ml	0.92

**Health & Safety**

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Safety Data Sheet (SDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment. Due to continual product research and development, the information contained herein is subject to change without notification.