

# PETRONAS Grease LiX EP 2/380 and LiX MEP

## Advanced Industrial Lithium Complex and Heavy Duty Greases



Heavy Loads



High Temperatures



Extreme Pressure



Water Resistant



Corrosion Protection

### Description

**Petronas Grease LiX 2/380** is a functional polymer based lithium complex, NLGI 2 grease developed specifically for high temperature general purpose industrial applications. This extra high performance grease was exposed to extended tests in paper, cement, steel and sugar mills have produced excellent results and have led to widespread usage in general industry. It has a high load carrying capability and strongly resists industry fluids and water washout, even at elevated temperatures.

**Petronas Grease LiX MEP** is a premium NLGI 2 grease developed for heavy duty applications where good adhesive properties are needed. This extra high performance grease uses a functional

polymer based Lithium Complex thickener. This gives the grease its excellent high temperature performance and compatibility with other Lithium, Lithium-Calcium or Lithium complex greases. These greases have a drop point of 260 °C minimum. **Petronas Grease LiX MEP** is especially suited to the lubrication of heavy duty components subjected to either oscillating or rotating motion, shock loading and the ingress of water. This grease is fortified with 3% solid lubricant quality Molybdenum Disulphide, which gives it additional EP/Anti-Wear and friction reducing properties, and therefore meets/exceeds the requirements of most manufacturers of off-road equipment.

### Applications

**Petronas Grease LiX 2/380** is recommended for large plain and anti-friction bearings and other mechanisms requiring a high temperature lithium complex NLGI 2 grease such as slides, cams etc. The excellent adhesive quality of this grease improves its stay-put properties compared to conventional greases. It has good pumpability and can be used in centralised lubrication systems.

**Petronas Grease LiX MEP** grease was formulated primarily for the lubrication of

contractor equipment such as chassis, highly loaded kingpins, U-joints, bucket pins, fifth wheels and open gears etc. However, field experience has shown that it will perform equally well in a variety of other heavy-duty applications in mining and other areas under severe operating and climatic conditions. Both greases can be applied by mechanical and hand operated equipment. Both greases have an operating temperature range from -20°C to +160°C.

### Features & Benefits

- Excellent adhesive & cohesive properties.
- Superior Rust and oxidation protection.
- Good high thermal and oxidation stability.
- Reduced re-lubrication intervals.
- Outstanding anti-wear/EP performance.
- High resistance to water and chemical process fluid contamination.
- Reduced leakage.
- Friction reducing properties

## Product Data Sheet

Effective Date 01.01.2015 Version 1.0

# PETRONAS

## High Performance Grease



### Typical Properties

	Test Method	Unit	Petronas Grease LiX 2/380	Petronas Grease LiX MEP
DIN 51502 / DIN 51825			KP2N-20	KFP2N-20
ISO 12924			L-XB(F)DIB2	L-XB(F)DIB2
NLGI Grade	ASTM D217		2	2
Thickener Type			Lithium Complex	Lithium Complex
Colour	Visual		Brown	Grey
Penetration, @ 25°C Worked	ASTM D217	0.1 mm	275	275
Dropping Point	IP 396	°C	280	280
Base Oil Type			Mineral Oil	Mineral Oil
Viscosity of Base Oil @ 40°C	ASTM D445	cSt	380	380
Oil Separation	ASTM D 1742	%	5	5
4-Ball Weld Load	DIN 51350:4	N	3000	3000
4-Ball Wear Scar 40kg/1hr	DIN 51350:5	mm	0.5	0.5
20,000 Strokes Worked Penetration	ASTM D217	% Change	10	10
Shell Roll Stability – 24hrs	ASTM D1831	% Change	10	10
Wheel Bearing Leakage @ 105°C	ASTM D1263	%	5	5
Wheel Bearing Leakage @ 163°C	ASTM D1263	%	7	7
Water Spray off	ASTM D4049	%	20	20
Molybdenum Disulphide Content	Calculate	%	--	3

### 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.