

Petrolube tds

LUBRICANTS

Technical Data Sheet : Lithium Grease EP00 (400cSt, Black)

A smooth semi-fluid rockdrill grease developed for the lubrication and corrosion protection of pneumatic percussion rockdrills .

Lithium Grease EP00 (400cSt, Black) is manufactured using highly refined mineral base oils which are carefully selected and then fortified with synthetic polymers, producing a highly shear stable foundation for the grease. This base oil foundation allows the product to perform in applications where heavy duty loads are typical.

Lithium Grease EP00 (400cSt, Black) is manufactured using a lithium thickener resulting in a buttery appearance with excellent shear stability characteristics. In addition, this type of thickener is easy to pump and has an excellent resistance to heat and water. The optimal operating conditions for this grease in terms of temperature, is from -40 to 150 degrees Celsius, however short periods of elevated temperatures can be tolerated without severe damage to the product.

Lithium Grease EP00 (400cSt, Black) is manufactured to a NLGI 00 grade resulting in a fluid grease which is suitable for enclosed gearboxes. The product contains a blend of synthetic tackifiers, increasing it's ability to resist water and adherence with all surfaces.

Lithium Grease EP00 (400cSt, Black) is black in colour and whose formulation includes a full treat of extreme pressure (EP) and corrosion preventative additives enabling the grease to meet or exceed internationally recognised performance standards. In addition this product is fortified with both copper and graphite solids making it suitable for boundary lubrication at high temperatures and/or heavy loads. In the case of accidental overheating, the presence of this material will still guarantee good lubrication and avoid any jamming or sticking.

KEY ADVANTAGES

Thermal stability	Very good thermal stability allowing the grease to perform for short periods of time under extreme temperatures, regaining its original texture after cooling to ambient temperature.
Mechanical stability	Allows for long periods of storage or non-use in the application without and mechanical breakdown of the grease thickener (e.g. oil separation)
Water resistant	The thickener has very good natural attributes which displace and resist water ingress.
Heat resistant	Exhibits excellent resistance to heat.
Excellent reversibility	After being subject to high temperatures, the grease has excellent reversal characteristics allowing the re-absorption of oil released after periods of high temperature.

TYPICAL APPLICATIONS

Designed to applied through the commonly used air-line grease lubricators
Lubrication of pneumatic rockdrills operated under the harsh conditions.
Extreme pressure additives, anti-wear and tackifiers to extended drill/thread life.
High resistance to water washing ensure grease is retained in critical areas

Mixing greases in a system can cause issues with thickener systems reacting with each other, changing the physical and chemical structure of the grease, causing an inability to hold or release base oil. Proper care must be taken to ensure compatibility when changing from one grease system to another. This grease is not compatible with greases making use of the following thickener types: aluminium complex, barium, bentonite clay, calcium complex and polyurea. There is a borderline compatibility sodium thickeners. Care must be taken to ensure the application is properly cleaned before using this product if a borderline or non-compatible product has been used before.

ENVIRONMENT, HEALTH and SAFETY

This product is classified under the OECD 301B Modified Sturm, ASTM D-5864, and CEC L-33-T-82 standards as being inherently biodegradable (i.e. 20-70% biodegradable in 28 days). Information is available on this product in the Material Safety Data Sheet (MSDS). Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. This product contains no PCB's (Polychlorinated Biphenyls).

This product has a shelf life of 36 months when stored in a dry environment at ambient temperatures (10-30°C).

TYPICAL TECHNICAL CHARACTERISTICS

DESCRIPTION	METH OD	UNI TS	RESULT
NLGI Grade	ASTM D 217		00
Thickener Type			Lithium
Colour	Vi su al		Bl ac k
Appearance	Vi su al		Buttery, Tacky
Penetration	ASTM D 217	0.1mm	460
Dropping Point	ASTM D 2265	°C	190 min
Viscosity of Oil @ 40°C	ASTM D 2983	cSt	400
4-Ball Wear Test Scar	ASTM D 2266	mm	0.50
4-Ball Weld Load	ASTM D 2596	kg	>600
Timken OK Load	ASTM D 2509	lb	80
Corrosion Prevention	ASTM D 1743		Pass
Copper Strip Corrosion	ASTM D 4048		1A

SPECIFICATIONS

ASTM D-5864 / CEC L-33-T-82
KPFOM-40 (DIN 51825)
ISO-L-X-DCIB0 (ISO 6743-9)

PACKAGING

.400 gram / .334 gram
15kg Steel pails
18kg Plastic pails
50kg Steel drums
180kg Steel open top drums

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

Misrepresentation Act 1967. Trade description Act 1968. The information in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which effect the use and performance of our products for which reason no warranty is given, express or implied. This information sheet was prepared from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.