

LITHMOLY EP2 GREASE WITH MOLYBDENUM DISULFIDE

Product Description

LITHMOLY EP2 Grease is a Lithium-Complex Grease with molybdenum di-sulfide fortified with multiple molecule Nano Technology which reduces friction drastically in rubbing surfaces. Nano Tech multiple molecules forms a protective layer on the metal surfaces for optimum wear protection and an extremely low coefficient of friction even under extreme of pressure, vibration, shock loads at high or low speeds of the friction surfaces. The infuse Nano particles in the grease results in equalization of surface roughness without creating abrasion. The oil is specially formulated with EP additives, anti-oxidants, rust & corrosion inhibitors to provide excellent high temperature performance with excellent adhesion, structural stability and resistance to water contaminations.

Applications

LITHMOLY EP2 GREASE is formulated for a wide variety application of heavy-duty Automotive & Industrial Applications for severe operating conditions especially in components where reciprocating or sliding motion is prevalent and where prevention of scuffing and fretting is desirable.

The oil is recommended for use in all types of bearings like plain and anti-friction ball and roller Bearings and bushings, rack and pinion, gears, linkages, slides, universal joints, kingpins, guides, chains, centralized lubrication systems, electric motors, pumps, EOT cranes, forklifts and other various Greasing Applications.

Benefits

- It can resist water washout thus preserves sealing.
- Repairs damage friction surfaces due to Nano particles.
- Formulated with high density ingredients help preserve the grease structure for long term applications.
- Excellent Tenacity helps reduce leakage and extend re-lubrication intervals.
- High load bearing capacity.
- Forms protective layer on metal surface to reduce friction drastically on the metal surfaces.

Performance Standard

- DIN 51825 KPF 2K -20
- DIN 51826 OGP 2K -20
- ISO 6743/6 L-CKG 2
- ISO 12924 L-XBCHB 2

Typical Properties

PROPERTIES	TEST METHOD	VALUES
Appearance	Visual	Greyish Black
Texture		Smooth Homogenous Paste
Soap	NA	Lithium Complex
NLGI Grade	ASTM D 217	2
Drop Point, °C,	ASTM D 566	265
Base Oil Kinematic Viscosity @ 40 ^o C, cSt	ASTM D445	220
4-Ball Weld Load, Kgs	ASTM D-2596	315
Worked Penetration 60 double strokes at 25°C	ASTM D217	265-295
Worked Penetration 100000 double strokes at 25°C	ASTM D217	Not more than 30 units
Roll Stability, Penetration Consistency Change, 0.1 mm	ASTM D-1831	-5
Copper Strip Corrosion, 24 h, 100 C, Rating	ASTM D 4048	1a
SKF EMCOR Rust Test, Distilled Water	ASTM D6138	0,0
Solid Lubricant	-	Molybdenum disulfide 3 %
Operating Temperature Range, °C	-	-25 to 150

Available Packs: 18 and 180 Kg.

Shelf Life – 36 Months from the Manufacturing month.

* All related specifications are meets or exceeds.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

1. PRODUCT AND COMPANY IDENTIFICATION

Product LITHMOLY EP 2 GREASE
Supplier PETRELPLUS INC.

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2. COMPOSITION

No Reportable Hazardous Substance(s) or Complex Substance(s). Composition of Base oil, thickener and performance- based additives.

3. HAZARDS IDENTIFICATION

Not classified as Hazardous.

4. FIRST-AID MEASURES

RESPIRATORY SYSTEM: Remove to fresh air and get medical attention.

INGESTION: Do not induce vomiting. Wash mouth out with water and obtain medical attention.

EYES: Rinse immediately with plenty of water for at least 10 minutes. Get Medical Attention.

SKIN: Remove contaminated clothing. Wash affected area with soap and water, get medical attention.

5. FIRE-FIGHTING METHODS

Foam, carbon dioxide or dry powder.

6. ACCIDENTAL RELEASE MEASURE

Contain and absorb in sand or earth. Ensure no material enters drains or water courses. Dispose of as solid waste in accordance with the relevant waste disposal regulations.

7. STORAGE AND HANDLING

Handling - At ambient temperatures wear gloves overalls and eye protection. The work area should be adequately ventilated. No eating drinking or smoking in the work area.

Storage - Store in delivery packs in a cool & dry place.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Standard:

The substance with exposure limit is: Notation 1: Exposure Standard: 2nd substance with exposure limit is: Notation 2:

PERSONAL PROTECTION

Respiratory Protection:

Type of Cartridge (if Applicable): Eye Protection: Safety Spectacles

Hand Protection: Gloves butyl or nitrile rubber

Industrial Hygiene: No eating drinking or smoking in the work area Ventilation: At room temperature handle in a well-ventilated area.

Use exhaust ventilation if exposure to flume or aerosol can occur.

PROTECTION AGAINST FIRE AND EXPLOSION

Combustible but not readily ignited. No explosion hazard.

EC SAFETY PHRASES: Not classified as hazardous.

9. TYPICAL PROPERTIES

Drop Point °C - 265
Temperature range °C - (-25 °C to 150°C)
NLGI - 2
Soap - Lithium Complex

10. STABILITY AND REACTIVITY

HAZARDOUS REACTIONS

Comments

HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition produces noxious fumes.

11. TOXICOLOGICAL INFORMATION

LD50 Acute Oral Toxicity: > 5000:mg/Kg:Rat

LC50 Acute Inhalation: :mg/1

Eye Irritation: No: Rabbit

Skin Irritation: No.: Rabbit

Sensation: No

Further Information:

12. ECOLOGICAL INFORMATION

LC50 (96 Hour): mg/1

EC50 (24 Hour): mg/1

Biodegradability (Coupled units):

13. DISPOSAL CONSIDERATIONS

Solid material should be incinerated. Material absorbed on sand should be disposed of as solid waste.

14. TRANSPORT INFORMATION

IMDG No.: Not classified

Packing Groups: IATA-DGR Class No.: Not classified

TREMCARD: Not classified

RID/ADR Class No.: Not classified

Other Information

15. REGULATORY INFORMATION

Classification and labeling according to EC Directives 67/548

Not classified as hazardous. EC Risk Phrases

Not classified as hazardous. Other Hazardous

EC Safety Phrases

Not classified as hazardous

16. OTHER INFORMATION: PRODUCT SAFETY

For safety reasons, it is IMPERATIVE that customer: - Ensure that all those within their control who use the products are supplied with all relevant information contained within the Material Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions or warning.

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