

LITHEX SSEP GREASE-00/700 EXTREME PRESSURE NANO TECHNOLOGY GREASE

Product Description

LITHEX SSEP-00/700 grease are lithium complex base semi fluid greases fortified with multipole Molecule Nano technology which reduces friction drastically in rubbing surfaces. Nano Tech multipole 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. A hydrodynamic lubrication film is maintained to achieve non-sacrificial micro-smoothing of the frictional surfaces. In smoothing the working surfaces, the loads are distributed over increased surface area.

It is special mineral oil-based grease free from solid lubricants. It has a high-pressure absorption capacity, provides excellent protection against wear and corrosion, shows good wetting behavior, water resistance and backflow behavior.

Applications

LITHEX SSEP-00/700 grease find their application under difficult operating conditions such as extreme pressure, vibrations, shock loads and a wide temperature range in highly loaded rolling and sliding bearings. It can be used as a semi-fluid grease lubricant in gears such as flange, drum-type and worm gears. Additionally, they find their use in gears without oil-tight enclosures, gear wheels and rolling bearings with a grease reservoir.

These greases are also suitable for bearings with a rotating outer ring and undergoing high stresses due to centrifugal load, e.g. in spreader rolls, roll neck bearings in steel mills, and for bearings with changing rotational directions or slewing movements. It is suitable for the immersion lubrication of gears up to a peripheral speed of approx. 4 m/s. Forced-feed lubrication is possible at increased speeds.

LITHEX SSEP-00/700 can also be applied through centralized systems.

Benefits

- Reduced wear under heavy or shock loading and vibration for good equipment reliability and availability.
- Protection against rust and corrosion and resistance to water washout for equipment protection and good lubrication even in presence of water.
- Good wear protection.
- Good anticorrosion behavior.
- Extended bearing life potential in wet environments for reduced bearing costs and unanticipated downtime.
- Effective leakage control.
- High pressure absorption capacity.
- Excellent Demulsibility to Ease Water Resistance.
- No channeling in case of immersion lubrication.
- Pumpable through centralized systems.
- LITHEX SSEP range is recommended for Stone processing and Mining industries.

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Health & Safety

This grease is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.

Typical Properties

LITHEX SSEP	TEST METHOD	00
NLGI		00
Structure	-	Homogeneous fibrous
Soap Type	ASTM D 128	Lithium complex
Base oil		Mineral + POA
Density at 20°C	g/cm ³	0.9
Base oil viscosity at 40°C, cSt	ASTM D 445	750
Base oil viscosity at 100°C, cSt		40
Worked Penetration @25°C, (60 X)	ASTM D 217	430-475
Drop Point, °C	ASTM D 566	N/A
Copper Corrosion, 24 hrs, 100°C	ASTM D4048	1b
FZG Scuffing test, based on DIN ISO 14635		>=12

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 LITHEX SSEP-00/700 GREASE
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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

NLGI	- 00
Drop point, °C	- NA
Copper Corrosion	- 1B
Thickener	- Lithium Complex Soap

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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