LITHEXPLUS EP-700 LITHIUM COMPLEX HEAVY LOAD GREASE

Product Description

LITHEXPLUS EP 700 grease is designed for very heavy-duty service under severe ambient conditions. It is blended and compounded to withstand shock loads as well as heavy loads, conditions commonly found in the steel and construction industries, in mining and forestry. LITHEXPLUS EP 700 grease is made with a blend of high-viscosity mineral oils and polymers which produce a tough lubricating film capable of withstanding shock loads and vibrations. The shear-stable thickener provides an excellent sealing effect against contamination from the atmosphere, even if mechanical seals are damaged or missing (grease collar in the bearing). The lubricating grease contains solid lubricants whose structure is best suited for the rugged conditions in heavy industry. The solids are treated to increase their natural affinity to metal surfaces. Corrosion and oxidation inhibitors maximize the corrosion protection and aging stability of the base oil. LITHEXPLUS EP 700 grease is free of antimony, lead, zinc and other heavy metals. The grease is formulated to withstand high centrifugal forces and high-torque applications for grid and gear (flexible) couplings even where severe shock loadings, misalignment and vibration occur.

Applications

Typical applications are in all types of rolling and sliding bearings, spindles, joint couplings (except for high-speed precision couplings), running gears, cams and general grease lubricating points, especially where heavy loads and low speeds prevail. LITHEXPLUS EP 700 greases are especially suited for the lubrication of heavy machines e.g. forging presses or hauling machines. Due to the extremely stable lubricating film, supported by the solid lubricant combination in the mixed friction area as well as the excellent sealing effect, a quantity reduction and an improved lubricating condition can be ensured.

Benefits

The LITHEXPLUS EP-700 solid lubricants achieve reduced friction in the boundary and mixed friction areas Due to their good adhesion these greases provide an optimum sealing effect. This is most evident during frequent start-ups, low speeds and/or high loads as well as shock loads. Kiln on sponge iron plants and sliding lubricants in Steel Plants. LITHEXPLUS EP-700 Grease is used in heavy industries, marine industry, and general machinery.

- Excellent resistance to oil separation
- High acceleration and high operating
- Excellent high-torque lubrication
- High corrosion protection

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Health & Safety

These greases are 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

LITHEXPLUS EP-700	NLGI-2	NLGI-1	TEST METHOD
Color	Brownish	Brownish	-
Structure	Smooth	Smooth	-
Soap Type	Lithium	Lithium	ASTM D 128
Base oil viscosity at 40^{0}C, cst	700	765	ASTM D 445
Worked Penetration @25^{0}C, (60 X)	270-295	310-340	ASTM D 217
Rust Protection	Pass	Pass	ASTM D 1743
Rust test, EMCOR Rating	0,0	0,0	IP 220
Four ball weld loads, kgs. min. N	8000	8000	ASTM D 2596
Timken OK load (lbs) min.	50	50	ASTM D 2509
Copper Corrosion	1b	1b	ASTM D 4048
Usable Temperature,			
Copper Corrosion (24 hrs,100°C / 212°F)	1	1	ASTM D4048
Drop point °C	230	210	ASTM, D-2265

Available Packs: 18, 50 and 180 Kg.

Shelf Life: 36 Months from 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.

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Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product **LITHEXPLUS EP 700 GREASE**

Supplier **PETRELPLUS INC.**

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2. COMPOSITION

High viscosity mineral base oil, polymers, thickener and high-performance additives.

3. HAZARDS INDENTIFICATION

FIRE -Flammable at high temperature.

HEALTH

Eye contact -May cause mild irritation to the eyes upon direct contact.
Skin contact -Prolonged contact may defat the skin or can cause dermatitis.
Inhalation -hazards.
Ingestion -Harmful if swallowed.

4. FIRST-AID MEASURES

Inhalation -Remove person to fresh air. Seek medical help if discomfort persists.
Ingestion -Do not induce vomiting. Seek medical support.
Skin Contact -Immediately flush skin with plenty of water for at least 15 minutes.
Eye Contact -Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

5. FIRE-FIGHTING METHODS

Extinguishing media -Use dry chemical powder or carbon di – oxide or foam.
Special protective equipment -Positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURE

Personal protection - Adequate ventilation, gloves, goggles, overalls and boots.
Environmental precautions - Avoid entry into water courses.
Clean up method - Absorb on inert material.

7. STORAGE AND HANDLING

Handling - Impervious gloves & eye protection ensure good ventilation. Keep away from source of ignition.
Storage - Store in a cool & dry place.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory protection - Not required under normal conditions.
Skin/hand protection - Impervious gloves, overalls, and boots.
Eye protection - Use Goggles

9. TYPICAL PROPERTIES

Color - Brownish
Thickener - Lithium
Rust Protection - Pass
Copper Corrosion - 1 b

10. STABILITY AND REACTIVITY

Stability - Stable
Conditions to avoid - Excessive temperatures
Materials to avoid - Strong oxidizers
Hazardous decomposition products - Oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION

Skin contact	- Possible irritation
Eye contact	- Possible irritation
Inhalation	- Not applicable
Ingestion	- Irritation. May cause lung damage.
Long term effect	- Not known

12. ECOLOGICAL INFORMATION

Mobility	- Mobile
Degradation	- Low
Accumulation	-Not expected
Short- & Long-Term effect	- Water pollutant

13. DISPOSAL CONSIDERATIONS

Dispose off according to local and national regulations.

14. TRANSPORT INFOMRATION

CPL	- Not applicable
IMO	-Not applicable

15. REGULATORY INFORMATION

Symbol(s)	-Not applicable
Phrase(s)	- Not applicable
Phrase(s)	- Not applicable

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.