

# LITHEXPLUS-3

## LITHIUM COMPLEX GREASE

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### Product Description

LITHEXPLUS – 3 is a lithium Complex soap grease formulated to provide outstanding mechanical stability. It is a multipurpose grease developed for use in a variety of operating conditions.

LITHEXPLUS –3 grease provides excellent lubrication in both high and low temperature conditions. The product combines oxidation and corrosion inhibitors with high quality base stocks. It provides good resistance to water wash out and performs well under heavy load and high-speed conditions.

The product may be used within the range of temperatures defined by its minimum 195°C drop point and maintains excellent pump ability even at low temperatures.

### Applications

LITHEXPLUS – 3 is recommended for various Industrial Applications such as, Automotive Industry, Stone Processing Units, Mining & Agricultural Sectors.

### Performance Standard

- NLGI-3

### Benefits

- Excellent Water resistance property.
- Excellent protection against Corrosion.
- Good Thermal Stability.
- High protection against Rust.
- High Mechanical Stability.
- Provides excellent lubrication in both high and low temperature conditions.
- The grease is suitable under heavy load and high-speed conditions.

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**PETRELPLUS INC.**

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## Typical Properties

LITHEXPLUS - 3	
NLGI Grade	3
Color	Yellow
Thickener Type	Lithium Complex Soap
Texture	Buttery
Kinematic Viscosity, @ 40°C	160
Kinematic Viscosity, @100°C	16.5
Worked Penetration (60 Strokes) @ 25% °C	225
Drop Point, °C	195
Mineral Oils, % wt	83
Water Washout Test	Passes
Rust Test, D-1743	Passes

**Available Packs: -18, 180 KG**

**Shelf Life – 36 Months from the manufacturing.**

\*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** LITHEXPLUS-3 GREASE  
**Supplier** PETRELPLUS INC  
**One World Center, Tower One,  
9<sup>TH</sup> floor, Senapati Bapat Marg  
Lower parel** Mumbai-400064, Maharashtra.  
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## 2. COMPOSITION

Blend of Base oils, Lithium Complex soap thickener and performance-based Additives.

## 3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous.

Main Hazard: Health Effects

Route of Entry: Eyes, Ingestion, Skin

Eye Contact: Direct contact may cause irritation, redness, tearing and blurred vision.

Ingestion: Relatively non-toxic, May cause diarrhea. Skin Contact: Mildly irritating. May cause possible rash for person with hypersensitivity.

## 4. FIRST-AID MEASURES

Eye Exposure: Immediately flush with plenty of water until all residual material is gone. If irritation persists get medical help.

Ingestion: Not expected under normal condition. Do not induce vomiting. Wash out mouth. Contact physician immediately.

Skin Contact: Remove by wiping or with waterless hand cleaner, followed by washing with soap & water. If irritation persists get medical help.

Inhalation: Not expected under normal condition. If mists or degradation products are inhaled, remove to fresh air. Administer oxygen or artificial respiration as indicated and get immediate medical attention.

## 5. FIRE-FIGHTING METHODS

Flammability: Nil at ambient temperature

Explosion Limits: None. Flammable limits LEL: N/A, UEL: N/A

Extinguishing Media: Use dry chemicals, foam, halon, carbon dioxide, sand, earth or water mist.

Hazardous Combustion Products: Oxides of carbon, smoke and irritating vapours as products of incomplete combustion.

Protective Equipment: Self-contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURE

Spillage: Avoid walking through spilled material. Scoop or wipe up spilled material and place in clean container for later disposal.

Thoroughly remove residue to prevent slipping. Prevent entry into waterways and sewers. Wear appropriate protective equipment (i.e. rubber gloves, apron etc. as necessary to avoid contact).

## 7. STORAGE AND HANDLING

Handling Procedures: No special handling precautions keep away from heat, sparks, flames or strong oxidizers when handling. Avoid skin and eye contact. Do not pressurize, cut, heat or weld empty containers. Storage Requirements: Store in cool, dry, well ventilated place away from ignition sources and incompatible material.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory Protection: Not required under normal working condition

Eye protection: Use approved safety glasses or goggles Skin Protection: Impervious gloves and protective clothing to prevent skin contact

Exposure Limits: This product does not contain any components which have recognized exposure limits.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Thickener:	Lithium Complex soap
Base oil viscosity at 40 °C, mm <sup>2</sup> /s:	160
Base oil viscosity at 100 °C, mm <sup>2</sup> /s:	16.5
Worked penetration, 0.1 mm:	225
Drop point, (min) °C:	195

**10. STABILITY AND REACTIVITY**

Stability (thermal, light etc.): Stable  
Hazardous Decomposition: May release Carbon Dioxide and Carbon Monoxide when heated to decomposition. Materials to avoid: Strong acids and oxidizing agents  
Conditions to avoid: Powerful sources of ignition, extreme temperatures

**11. TOXICOLOGICAL INFORMATION**

Elevated temperatures or mechanical action may form vapors or fumes. Inhalation of oil mists or vapors from Effect of Long Term (Chronic) Exposure: Long term dermal application may produce skin irritation.  
Hot oil may cause irritation of the upper respiratory tract.

**12. ECOLOGICAL INFORMATION**

Possible Effects: Highly unlikely to cause widespread contamination. Avoid Exposure to environment whenever possible.

**13. DISPOSAL CONSIDERATIONS**

Dispose of this material in accordance with local, state, and Federal regulations.

**14. TRANSPORT INFORMATION**

This material is not classified as dangerous under general regulations.  
General information: Not regulated. UN No. : Not regulated.  
ADR/RID: Not regulated.  
IMO-IMDG code: Not regulated. ICAO/IATA: Not regulated.

**15. REGULATORY INFORMATION**

Not classified as dangerous or hazardous. Symbol(s): Not applicable  
R Phrase(s): Not applicable S 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.