

ULTRA PLUS -220/1 SYNTHETIC LITHIUM COMPLEX GREASE

Product Description

ULTRA PLUS 220 series greases are composed of 100% synthetic base oil which provides the lubrication. Under extreme service conditions (very low temperatures of the order of -40°C or very high > 280°C), the use of synthetic base oils is necessary to reach performance levels that traditional greases based on mineral oils cannot attain. The synthetic base oils used are in particular.

PAO (Poly Alpha Olefin) these base oils are very resistant to oxidation and are notably used for lifetime greasing at standard temperatures. Synthetic greases represent a good number of specialty greases and are very often chosen for alternative maintenance solutions.

In order to minimize potential incompatibilities when converting to new grease, all previous lubricant should be removed as much as possible prior to operation. During initial operation, lubrication intervals should be monitored closely to ensure all previous lubricant is purged.

ULTRA PLUS 220, NLGI-1 grade this semi solid grease is all purpose, extreme pressure grease is recommended for heavy duty machinery applications, it can be used where Centralized lubrication is required.

Applications

- Bearings for electric motors.
- Micro-mechanisms, robots.
- Micro-electronic parts, connectors.
- Protection of gluing tables.
- Grooves and lips of sealing gaskets.
- Slides, rails.
- Cylindrical, conical roller bearings.
- Furnace rollers.
- Motor vehicle interiors.

Benefits

- Very low pour point for operation at low temperature.
- Exceptional resistance to oxidation for a very long lifetime.
- Very high thermal stability avoiding decomposition at high temperatures.
- High viscosity index (VI) to maintain suitable viscosity whatever the temperature.
- Good lubricating performance with or without additives.
- Because of their technical qualities, synthetic greases are the obvious choice for certain applications. They can also be an alternative for optimizing and spacing out your maintenance operations.
- Lifetime and protection of elements, Reduction in maintenance costs.
- Reduced grease consumption less processing of packaging, water reduction in overall lubricant costs and preservation of the environment.

Typical Properties

Ultra Plus 220	
Thickener Type	Lithium Complex
Base oil / viscosity	Synthetic base (PAO)
Color	Milky White
Appearance	Smooth and Buttery
NLGI Grade	1
Dropping Point, °C	280 °C
Solid Lubricants	PTFE 3%
Water Washout	1% max
4 Ball EP Test weld Load, KGF, ASTM D2596	250-260
Service Temperature	-40 to 280 °C
Penetration, 60X.01 mm, ASTM D217	325
Base Oil Viscosity at 40 °C mm ² /s ASTM D445	220
Base Oil Viscosity at 100°C mm ² /s ASTM D445	29
Copper Strip Corrosion Test ASTM D4048	1A

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.

1. PRODUCT AND COMPANY IDENTIFICATION

Product **ULTRA PLUS -220/1**
Supplier **PETRELPLUS INC.**
 One World Center, Tower One, 9th Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.
 Call # +91 22 6216 7072
 (Monday to Friday)
 Cell # +91 93522 25457
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2. COMPOSITION

No harmful substances. Composition of Synthetic (PAO) hydrocarbon base oil, Lithium complex soap and proprietary additives.

3. HAZARDS IDENTIFICATION

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

Soap - Lithium Complex
 Color - Milky White
 NLGI - 1
 Drop point, °C - 280

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 INFORMATION

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.