

# ANTI-SEIZE MOLYGRADE

MOLYBDENUM BASED ANTI-SEIZE COMPUND

## Product Description

Anti-seize Moly compound is a superior extreme high temperature anti-seize and extreme-pressure lubricant. It contains flake particles of MoS<sub>2</sub>, Graphite and other additives in a special grease carrier found to enhance anti-seize performance. It is recommended for use where applications prohibit the presence of copper and nickel especially where resistance to corrosive acidic and caustic solutions is required. It offers a high concentration of molybdenum disulfide, graphite and other anti-wear solids in a high-performance carrier.

A stable non-melting high temperature anti-seize compound formulated with a high concentration of pure Moly powder in a special carrier with inhibitors to protect and lubricate. Anti-seize compound delivers maximum performance for highly loaded fasteners subjected to high shock loads. Recommended for threads, pipes, valves, and equipment carrying ethylene, acetylene, and other services where copper contamination must be avoided.

## Applications

Heavy Duty Construction Machinery, punch press machines, Marine Applications, Mining Equipment Trucks and Buses, Refineries, Process Plants and many more.

## Benefits

- Designed for Heavily Loaded threaded assemblies.
- Long-term protection against rust and corrosion.
- Protects against seizing and galling.
- Excellent for Stainless Steel applications.
- Reduces friction on all metal surfaces.
- Works where other compounds fail.
- Protects load bearing surfaces during critical wear-in.

## Directions for use

Anti-seize Moly Compound is free from lead, copper and aluminum and does not carbonize at high temperature up to 1300°C. It is recommended for stainless steel applications above 300°C it performs well on similar and dissimilar metals. It provides rust, Corrosion protection while preventing seizing, galling, pitting, galvanic action and thread distortion. It is impervious to water and offers protection from steam acids, caustic and harsh chemicals.

## Typical Properties

ANTI SEIZE MOLYBDENUM COMPOUND	
Appearance	Smooth Grease
Color	Black
Thickener	Lithium complex with MoS <sub>2</sub> , Graphite
Water Washout (%)	0.7
Operating Temperature	1500°C
Drop Point	310°C
NLGI	2
Worked Penetration	265-295
Friction Coefficient	0.085
Extreme Pressure Timken Ok Load Kg (Lbs)	50+(110)
Four Ball Wear Solids	0.4mm
Rust Prevention to Stain	1a
Specific Gravity	1.38
Weight per gallon	11.5LB
Solid Lubricants Graphite Molybdenum Disulfide	48%
Torque Coefficient "Nut Factor"	KValues0.15±0.02
Carrier plus additive	52%

### Available Packs

1. 5, 50, 100 and 200 Gram
2. 1 and 5KG

**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.

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product** ANTI-SEIZE MOLYGRADE  
**Supplier** PETRELPLUS INC.

One World Center, Tower One, 9<sup>th</sup> Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.  
 Call # +91 22 6216 7072  
 (Monday to Friday)  
 Cell # +91 93522 25457  
[marketing@petrelplus.com](mailto:marketing@petrelplus.com)  
[www.petrelplus.com](http://www.petrelplus.com)

**2. COMPOSITION**

Base oil, Lithium Complex thickener, molybdenum di sulphide, graphite and performance-based 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**

Color - Black  
 Texture - Smooth  
 Thickener - Lithium Complex with Mos2 and Graphite.

**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.