

ANTI-SEIZE COPPER GRADE

Copper Based Anti-Seize Compound

Product Description

ANTI-SEIZE COPPER GRADE is a premium low friction, electrically conductive grease based on micro size amorphous copper, graphite and other proprietary solid lubricants with non-melting high temperature apart from new generation oxidation and H₂S inhibitors. It is a lead and zinc free compound formulated to provide excellent performance under excessive vibration, load and elevated temperatures.

A unique combination of solid lubricants and EP additives impart extremely high weld load to the compound thereby offering superior protection against seizing and galling of threaded connections normally encountered under severe drilling conditions. It also makes the compound suitable for lubrication of open gear assemblies subjected to very high load.

Recommended for use

Anti-seize Compound is free from lead, graphite and aluminum and does not carbonize at high temperature up to 1100°C. It is recommended for stainless steel application above 360°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, electrically conductive and offers

protection from steam acids, caustic and harsh chemicals. It is supplied ready to use to apply by brush, swab, or hand or grease gun.

Typical Properties

ANTI SEIZE COPPER COMPOUND	
Appearance	Smooth Grease
Color	Dark Copper
Specific Gravity	1.2 ± 0.1
Kinematic Viscosity @40°C	1000
Operating Temperature	> 1100°C
Drop Point	None
NLGI	2
Worked Penetration	265-295
Copper Strip Corrosion	ASTM D130 = 1a
4 Ball Weld Load ASTM D2509	> 800 Kg
Brush ability	Up to -12°C
Four ball Wear solids	0.4mm
Oil Separation	< 2.5 %
Friction Factor	1.1 (as per API RP 7A1)
Wear scar under 800N load	1.08
Coefficient of friction μ Press-Fit test	0.10,
SKF Emcor method Degree of corrosion	0

Available Pack

- 1, 5, 18 & 180 Kg.
- 50, 100, 200 Grams

Shelf Life: 36 Months from manufacturing month

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.

* All related specifications are meets or exceeds.

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1. PRODUCT AND COMPANY IDENTIFICATION

Product ANTI-SEIZE COPPER GRADE
Supplier PETRELPLUS INC.
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2. COMPOSITION

Copper Powder, Base Oil and Proprietary additives

3. HAZARDS IDENTIFICATION

Not classified as hazardous.
 Other Hazards:

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 power.

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

Storage 1: Store in delivery packs in a cool dry place.
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.

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 Grade	2
WORKED PENETRATION	265 – 295
DROPPING POINT	NONE
Kinematic Viscosity @40°C	1000

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 :

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 INFOMRATION

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.