

ANTI SEIZE-GZ PASTE GRAPHITE AND ZIRCONIUM PASTE

Product Description

ANTI-SEIZE-GZ Paste is a stable non-melting high temperature anti-seize paste formulated with solid lubricants such as Graphite and Zirconium dioxide to protect and lubricate.

It is used for bolted joints and is free from intentional lead, nickel, sulfur, chlorine or fluorine.

Applications

This solid lubricant paste is used for bolted joints. It is suitable for screws, nuts and bolts subjected to very high temperature that are made of heat resistant steels. It is also recommended for use where applications prohibit the presence of copper and nickel especially where resistance to corrosive acidic and caustic solutions is required.

ANTI-SEIZE-GZ paste has low seepage, so it can be used in places wherein cleanliness is required.

Benefits

- ANTI-SEIZE-GZ paste is recommended for stainless steel applications at high temperature and performs well on similar and dissimilar metals.
- It is impervious to water and offers protection from steam acids, caustic and harsh chemicals.
- Good protection against rust and corrosion.
- Prevention against seizing, galling, pitting, galvanic action and thread distortion.
- Allows screws to be removed easily, even after extended periods of use at high temperatures.
- Excellent load-carrying capacity and seize protection.
- ANTI-SEIZE-GZ paste is shows excellent compatible with high temperatures.

Typical Properties

PROPERTIES	TEST METHOD	
Appearance	Visual	Grey Black
Solid Lubricants		Graphite and Zirconium dioxide
Base Oil		Mineral
Unworked Penetration	ASTM D217	280 to 310
Density @ 20 °C, g/cm ³	ASTM 1475	1.21
Base Oil Viscosity @ 40 °C	ASTM D445	1000
Dropping point, °C	ASTM D566	None
Water Wash Out, %	ASTM D 1246	0.7
Four ball weld load (1,450 rpm 1 minute), N	ASTM D 2509	5,500
Four ball wear scar(1,450 rpm, 800 N, 1 hour), N	ASTM 2266	1.50
Copper Corrosion (24 hrs,100 °C)	ASTM D4048	1a
Operating temperature, °C		Up to 1400
Coefficient of friction in bolted connection, M12 x 1.75, 8.8, blackened, μ thread μ head		0.11/0.11
Breakaway torque, M-12 bolts 21CrMoNiV57 1.7709, nuts and washers 21CrMo5 1.7258, 600°C for 21 hours:		
Tightening torque		49.4 Nm
Breakaway torque		120.9 Nm
Breakaway torque, Nimonic NiCr20TiAl bolts, nuts and washers 2.4952, 850°C for 4 weeks:		
Tightening torque		49.4 Nm
Breakaway torque		102.4 Nm

Available Packs: 1, 5, 18, 50 and 180 Kg

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.

1. PRODUCT AND COMPANY IDENTIFICATION

Product ANTI-SEIZE-GZ Paste
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)
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2. COMPOSITION

Composition of Mineral oil, Solid lubricants like Graphite and Zirconium dioxide and proprietary additives. Free from intentional lead, nickel, sulfur, chlorine or fluorine.

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 - Gray black
 Penetration - 280-310
 Solid Lubricant - Present
 Copper Strip Corrosion - 1a

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.