

## SILVER CONDUCTIVE GREASE SUPER SILVER CONDUCTIVE GREASE (100% SILVER CONTAIN)

### Product Description

Electrically conductive Grease is used for improving electrical connections between sliding surfaces and parts. Conductive grease typically serves as a ground to provide excellent Electric channeling.

SILVER CONDUCTIVE GREASE provides maximum electrical and thermal conductivity, proven lubrication properties, and protection from moisture, oxidation, and other environmental hazards. This electrically conductive grease utilizes an advanced silicone lubricant that is compatible with metal, rubber, and plastic. Use it to fill connector gaps, provide grounding for circuits, and control static discharge. Effective as a thermal conductive grease and electric conductive grease.

### Uses

It is excellent for ground connections, rotating connections, rotary switches, variable capacitors, roller inductors, roller bearings, slip rings, slide connectors and potentiometers.

### Benefits

- Reduces mechanical wear.
- Lubricates, reduces contact resistance, repels moisture, inhibits corrosion and prevents static buildup.
- Ensures electrical contact between loose or vibrating parts.
- Improves electrical connections between irregular, pitted or corroded surfaces.
- Economical way to protects switches.
- Excellent thermal & electrical conductivity.
- Thermally stable over a wide temperature range.
- Conductive lubricant containing pure silver.

### Application:

- It is excellent for ground connections, rotating connections.
- Rotary switches, variable capacitors, roller inductors and roller bearings.
- Slip rings, slide connectors and potentiometers.
- Lubrication of substation switches or circuit breakers.
- Heat dissipation from transformers.
- Low or medium speed sliding contacts.
- Static grounding on Seals or O-rings
- Extending the life of rotating switches.

**PETRELPLUS INC.**

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## Typical Properties

SILVER CONDUCTIVE GREASE	
Appearance	Smooth Grease
Material	100% Silver Filled Grease
Color	Silver gray
Volume resistivity	<0.01 ohm-cm
Thermal Conductivity (BTU-in/hr-ft <sup>2</sup> -°F)	38.8
(CAL-cm/sec-cm <sup>2</sup> -°C)	1.3 x 10 <sup>-2</sup>
(W/m <sup>2</sup> K)	6-May
Operating Temperature	-50 to 250°C (-58 to 482°F)
Drop Point	536°F(280°C)
Unworked Penetration	210
Worked Penetration	250
Copper Strip Corrosion	None
Moisture Resistance	Excellent
Chemical Resistance	Excellent
Electrical Conductivity	Excellent
Thermal Conductivity	Excellent
Lubrication Properties	Excellent
Protection from Oxidation	Excellent
Power Rating	High/Low
Shelf life	3 Years
ROHS Compliant	Yes

### Available Packs:

1. 50-, 100- and 200-Gram Tube.
2. 1, 5, 18 and 180 KG

### Shelf Life – 36 Months from the 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** SILVER CONDUCTIVE GREASE  
**Supplier** PETRELPLUS INC.

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**2. COMPOSITION**

Blended from selective Hydrocarbons, 100 % Silver filled and proprietary additives.

**3. HAZARDS IDENTIFICATION**

Not classified as Hazardous.

**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 powder.

**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**

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.

Storage - Store in delivery packs in a cool & dry place.

**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**

Color	- Silver gray
Operating Temperature	- (-50 to 250°C)
Moisture Resistance	- Excellent
Thermal Conductivity	- Excellent
Electrical conductivity	- Excellent

## 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

Further Information:

## 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 INFORMATION

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.

DISCLAIMER/USER'S RESPONSIBILITY: PETRELPLUS INC. Provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriate use.