

# SILVER-FILLED CONDUCTIVE SILICONE GREASE 1110

An electrically conductive silicone grease for improving electrical connections between sliding surfaces and part



Silver Conductive Grease provides maximum electrical and thermal conductivity, proven lubrication properties, and protection from moisture, oxidation, and other environmental hazards. This system utilizes an advanced silicone lubricant that is compatible with metal, rubber, and plastic.

As with any compound, compatibility with substrate should be determined on a non-critical area prior to use.

## TYPICAL APPLICATIONS

Our Silver Conductive Grease may be used for high and low power applications including:

- 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

## BENEFITS

- High electrical conductivity
- Excellent thermal conductivity
- Provides protection against wear
- Improves electrical connections between irregular surfaces
- Remains stable in a wide temperature range; -70 to 485°F (-57 to 252 °C)
- Protects against moisture and corrosion
- Extends the life of contacts
- Very low viscosity vs. temperature change
- Safe on plastics
- Ensures electrical contact between loose or vibrating parts and small gaps

## ORDER EXAMPLE

Series

**1110**

Silver-Filled Conductive Silicone Grease

## TECHNICAL DETAILS

Data	Specification
Material	100% Silver Filled Silicone Grease
Color	Silver/Gray
Consistency	Smooth Paste
Specific Gravity	2.7 – 3.2
Volume Resistivity	<0.01 ohm-cm
Surface Resistivity	0.5 – 1.0
Color	Gray
Evaporation	< 1%
Bleed	< 1%
Electrically Conductive	Yes
Thermally Conductive	Yes
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>	1.3 x 10 <sup>-2</sup>
( W/m <sup>2</sup> K)	5.6
Consistency	Paste
Operating temperature range	-70 to 485°F (-57 to 252 °C)
Unworked Penetration (ASTM D-1403) 77°F	210
Worked Penetration (ASTM D-1403, 60 Strokes)	250
Dropping Point (ASTM D-2266)	491°F (255 °C)
Steel on Steel Wear (ASTM D-2266)	1.5mm
Corrosion on Copper	None
Moisture Resistance	Excellent
Chemical Resistance	Excellent
Electrical Conductivity	Excellent
Thermal Conductivity	Excellent
Lubrication Properties	Excellent
Protection from Oxidation	Excellent
Power Rating	High/Low
Standard package	7 grams