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COOL SILVER

Non Curing
ELECTRICALLY NON-CONDUCTIVE
Outstanding Thermal Conductivity
Interfacial Compound

TYPICAL PROPERTIES*

Electrical Resistivity (ºC/)	N/A	ohm-cm
Dielectric Strength (Volts/mil)		
Glass Transition Temp.(ºC)		
Lap-Shear Strength	N/A	
Device Push-off Strength	N/A	
Hardness (Type)	Not Available	
Cured Density (gm/cc)	5.0	
Thermal Conductivity	>83 Btu-in/hr-ft²-ºF >12 W/m-ºC	
Linear Thermal Expansion Coeff. (ppm/ºC)	Non-curing	
Maximum Continuous Operation Temp. (ºC)	150	
Avg.Viscosity @ 5 rpm, 24ºC (Brookfield DV-1, Spindle CP51)	20,000 cp	

* Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is intended to be used in manufacturing and in the final product.

IDEAL FOR:

- **Processor to heatspreader interface**
- **Processor module to heatsink interface**
- **Processor to heatpipe interface**

DESCRIPTION:

COOL-SILVER is a non-curing, non-silicone, thermal interface coated silver filled grease that is not electrically conductive in bulk. The non-curing COOL-SILVER is by far the lowest thermal resistance grease that is not electrically conductive. It is designed specifically for high power devices requiring less than 0.0020 ºC-in²/watt thermal resistance (0.001 inch interface layer).

COOL-SILVER will become slightly more viscous after dispensing. It will remain as thermally conductive interface medium with non-electrically conductive properties at all time.

AVAILABILITY:

COOL-SILVER is available in syringes for automatic needle dispense applications. For consumer application, it is packaged in 3 gram syringe for ease of dispensing.

Temperature	Time	Pressure
Non-Curing		

APPLICATION PROCEDURES:

(1) Dispense adhesive onto clean substrate.

(2) Do not dilute COOL-SILVER.

(3) Try to spread very thin grease material on both sides of the substrate to ensure complete coverage and removal of trapped air.

Even though COOL-SILVER is not conductive in bulk, individual silver particle may be conductive. Spreading to exposed circuit traces should be avoided.

SHELF LIFE:

Storage temperature	Shelf Life
25ºC	1 yr from ship date in syringes

CAUTION: This product may cause skin irritation. Avoid skin contact. If contact does occur, wash immediately with soap and water. Please refer to MSDS for more details.

The information contained herein is believed to be reliable. All recommendations or suggestions are made without guarantee inasmuch as conditions and methods of commercial use are beyond our control. Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the produc in the manner the product is to be used in manufacturing and in the final product. Under no circumstance shall A.I. Technology be liable for accidental, consequential or other damages arising from the use or handling of this product.

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