



Ideal for Processor to:

- heat spreader interface
- heat sink interface
- heat pipe interface

Availability:

COOL-SILVER™ G4 is available in syringes for automatic needle dispensing. For consumer applications, it is packaged in 3.5 gram syringes for ease of dispensing.

Application Procedure:

- Clean the surface area of the processor and heat sink
- Using the syringe, dispense COOL-SILVER™ G4 on the processor making an "X" pattern. This pattern induces proper flow.
- Install the heat sink by clamping it down on the processor. As the heat sink presses down, COOL-SILVER™ G4 forms a perfect interface.

Shelf Life:

1 yr. from DOM in syringe, stored @ 25°C

Purchase AIT Products:

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THERMALLY CONDUCTIVE

Description

COOL-SILVER™ G4 is the fourth generation and a lower thermal resistance version of the famed COOL-SILVER™ Grease. COOL-SILVER™ G4 is a non-curing, non-silicone, silver filled thermal grease that is electrically insulating. The non-curing COOL-SILVER™ G4 is by far the best grease with the lowest thermal resistance that is electrically insulating.

COOL-SILVER™ G4 is designed specifically for high power devices requiring less than 0.0016 °C in²/watt thermal resistance (0.001 inch interface layer). COOL-SILVER™ G4 will become slightly more viscous after dispensing. It will remain as a thermally conductive interface medium with non-electrically conductive properties.

Typical Properties

PROPERTY/PARAMETER	VALUE
Cured Density (gm/cc)	3.6
Thermal Conductivity	>83 Btu-in/hr-ft ² -°F >12 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	Non-curing
Maximum Continuous Operation Temp. (°C)	150
Avg. Viscosity @ 5 rpm, 24°C (Brookfield DV-1, Spindle CP51)	50,000 cp

Even though COOL-SILVER™ G4 is electrically non-conductive, individual silver particles may be conductive. Spreading to exposed circuit traces should be avoided. 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.

Call AI Technology at 609-799-9388 for more information on this product and our full line of electronic processing and packaging materials!