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Products

Solutions

Industries

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Interface Materials

Greases

Sil-FreeII

Ther-O-Link

Ultrastick

ThermalcoteII

ThermalcoteIII

## Thermalcote™ Thermal Grease

Check Distributor Stock

Enter a part number for pricing and availability.

### Thermalcote (Part #: 249, 250G, 251G, 252G, and 253G)

ThermalcoteII is a superior thermal joint compound of thermally-loaded silicone-based grease for use with all heat sinks. It improves the transfer of thermal energy across the metal-to-metal interfaces between the transistor or rectifier case and the heat sink.

Thermalcote conducts heat approximately 15 times better than air and more than 4 times better than unloaded silicone grease. It is non-toxic, extremely stable, and neither cakes nor runs from -40° to 204°C (-40°F to 399°F).

► [MSDS Safety Sheet for Thermalcote in PDF format](#) 41K

#### Thermalcote Resistance Calculator

|   |                                      |
|---|--------------------------------------|
| Enter the area of the device that will contact the heat sink: | <input type="text"/> mm <sup>2</sup> |
| Enter the grease thickness:                                   | <input type="text"/> mm              |
| <input type="button" value="Calculate"/>                      |                                      |
| Interface Resistance =  | <input type="text"/>                 |

#### Formula

$$\text{interface resistance} = \frac{\text{interface thickness (mm)} \times 1000}{\text{thermal conductivity (W/m-K)} \times \text{contact area (mm}^2\text{)}}$$

|  |  |
|--|--|
| Color                                      | Opaque White   |
| Operating Temperature Range                | -40°C to 204°C (-40°F to 399°F)                            |
| Thermal Conductivity                       | 0.765Wm <sup>-1</sup> C <sup>-1</sup> (0.442 Btu/hr ft °F) |
| Dialectic strength 1.27 mm gap(0.050" gap) | 11.8 x 10 <sup>3</sup> volt/mm (300volts/mil)              |
| Cleaning solvent                           | Mineral Spirits or Turpentine                              |
| Specific gravity                           | 1.6  |
| Evaporation, 24 hours@200°C (392°F), wt%   | 1  |
| Shelf Life                                 | Indefinite <sup>1</sup> (unopened)<br>One Year (opened)    |

(1) It is recommended that the containers be turned over every 6 months to minimize settling for ease of mixing.

#### Ordering Information

| Part No. | RoHS            | PCN | Net Weight           |
|----------|-----------------|-----|----------------------|
| 249      | RoHS  Compliant |     | 28 grams (1 oz) tube |
| 250G     | RoHS  Compliant |     | 57 grams (2 oz) tube |
| 251G     | RoHS  Compliant |     | .45Kg. (1 lb) can    |
| 252G     | RoHS  Compliant |     | 2.27Kg. (5 lbs) can  |
| 253G     | RoHS  Compliant |     | 4.54Kg. (10 lbs) can |

### ThermalcoteIII (discontinued)

ThermalcoteIII (349G,350G,351G) has been discontinued

Aavid Thermalloy can no longer supply ThermalcoteIII product. Please see our Sil-FreeII line of product instead.

|          |     |
|----------|-----|
| Part No. | PCN |
|----------|-----|