Interface Materials
Greases
Sil-Free®
Ther-O-Link
Ultrastick
Thermalcote®
Thermalcote® II

Thermalcote™ Thermal Grease

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

Thermalcote® 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:	mm2
Enter the grease thickness:	mm
	Calculate
Interface Resistance =	

Formula

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

Color	Opaque White
Operating Temperature Range	-40°C to 204°C (-40°F to 399°F).
Thermal Conductivity	0.765Wm-1°C-1 (0.442 Btu/hr ft °F
Dialectic strength 1.27 mm gap(0.050" gap)	11.8 x 103volts/mm (300volts/mil)
Cleaning solvent	Mineral Spirits or Turpentine
Specific gravity	1.6
Evaporation, 24 hours@200°C (392°F), wt%	1
Shelf Life	Indefinite1 (unopened) 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	Product Change Notice	28 grams (1 oz) tube
250G	RoHS ✓ Compliant	Product Change Notice	57 grams (2 oz) tube
251G	RoHS ✓ Compliant	Product Change Notice	.45Kg. (1 lb) can
252G	RoHS ✓ Compliant	Product Change Notice	2.27Kg. (5 lbs) can
253G	RoHS ✓ Compliant	Product Change Notice	4.54Kg. (10 lbs) can

Thermalcote® II (discontinued)

Thermalcote® II (349G,350G,351G has been discontinued

Aavid Thermalloy can no longer supply Thermalcote® II product. Please see our Sil-Free® line of product instead.

Part No.	PCN

349G No longer available	Product Change Notice
350G No longer available	Product Change Notice
351G No longer available	Product Change Notice

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