



Arctic Silver Arctic Silver 5 - 3.5 grams

Special Price
\$7.61 was
\$8.95

Product Images



Short Description

Introducing Arctic Silver 5 With its unique high-density filling of micro-nized silver and enhanced thermally conductive ceramic particles, Arctic Silver 5 provides a new level of performance and stability. Now available at Arctic Silver dealers worldwide, Arctic Silver 5 is definitely The New Reference. For use between modern high-power CPUs and high performance heatsinks or water-cooling solutions.

Description

Arctic Silver 5 High-Density Polysynthetic Silver Thermal Compound - 3.5 gram Tube

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cooling solutions.

Made with 99.9% pure micronized silver

Arctic Silver 5 uses three unique shapes and sizes of pure silver particles to maximize particle-to-particle contact area and thermal transfer.

Over 88% thermally conductive content by weight

Arctic Silver 5 also contains micron-ized zinc oxide, aluminum oxide and boron nitride in addition to the silver. These thermally-enhanced ceramic particles improve the compound's performance and long-term stability

Controlled triple phase viscosity

Arctic Silver 5 does not contain any silicone. The suspension fluid is a proprietary mixture of advanced polysynthetic oils that work together to provide three distinctive functional phases. As it comes from the tube, Arctic Silver 5's consistency is engineered for easy application. During the CPU's initial use, the compound thins out to enhance the filling of the microscopic valleys and ensure the best physical contact between the heatsink and the CPU core. Then the compound thickens slightly over the next 50 to 200 hours of use to its final consistency designed for long-term stability.

(This should not be confused with conventional phase change pads that are pre-attached to many heatsinks. Those pads melt each time they get hot then re-solidify when they cool. The viscosity changes that Arctic Silver 5 goes through are much more subtle and ultimately much more effective.)

Note: This Item can not be shipped using DHL

Features

The Leader in Performance

3 to 12 degrees centigrade lower CPU full load core temperatures than standard thermal compounds or thermal pads. When measured with a calibrated thermal diode imbedded in the CPU core.

Not electrically conductive

Arctic Silver 5 was formulated to conduct heat, not electricity.

(While much safer than electrically conductive silver and copper greases, Arctic Silver 5 should be kept away from electrical traces, pins, and leads. While it is not electrically conductive, the compound is very slightly capacitive and could potentially cause problems if it bridges two close-proximity electrical paths.)

Approximate coverage of Arctic Silver 5

Arctic Silver 5 is sold in 3.5 gram and 12 gram tubes. The 3.5 gram tube contains enough compound to cover at least 15 to 25 small CPU cores, or 6 to 10 large CPU cores, or 2 to 5 heat plates. At a layer 0.003" thick, the 3.5 gram tube will cover approximately 16 square inches.

Important Reminder

Due to the unique shape and sizes of the particles in Arctic Silver 5's conductive matrix, it will take a up to 200 hours to achieve maximum particle to particle thermal conduction and for the heatsink to CPU interface to reach maximum conductivity. (This period will be longer in a system without a fan on the heatsink or with a low speed fan on the heatsink.) The CPU's temperature will drop as much as 2C to 5C over this "break-in" period. This break-in will occur during the normal use of the computer.

Caution:

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Specifications

- Absolute Stability: Arctic Silver 5 will not separate, run migrate, or bleed
- Thermal Conductance: $>30 \times 10^4 \text{W/m}^2 \cdot ^\circ\text{C}$ (0.001 inch layer)
- Thermal Resistance: $<0.005^\circ\text{C-in}^2/\text{Watt}$ (0.001 inch layer)
- Average particle size: $<0.49 \text{microns}$
- Extended temperature limits:
 - Peak: -50°C to $>180^\circ\text{C}$
 - Long-Term: -50°C to 130°C

Additional Information

Brand	Arctic Silver
SKU	ARCTICS5
Weight	0.2500
TIM Type	Paste
Vendor SKU/EAN	832199001014
Special Price	\$7.61

