

Arctic Alumina™ Premium Ceramic Thermal Compound

Introducing Arctic Alumina Thermal Compound. The first ceramic-based, polysynthetic thermal compound for use between modern high-power CPUs and high performance heatsinks or water-cooling solutions.

Features:

Premium Ceramic Content:

Arctic Alumina uses a layered composite of three unique shapes and sizes of ceramic particles to maximize particle-to-particle contact area and thermal transfer. This exclusive combination provides performance exceeding most metal based compounds.

Controlled Triple Phase Viscosity:

Arctic Alumina 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 syringe, Arctic Alumina's consistency is engineered for easy application in a thin even layer. 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.

NOTE: (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 Alumina goes through are much more subtle and ultimately much more effective.)

Absolute Stability:

Arctic Alumina will not separate, run, migrate, or bleed.

Electrical Insulator:

Arctic Alumina does not contain any metal or other electrically conductive materials. It is a pure electrical insulator, neither electrically conductive nor capacitive.

Performance:

2 to 10 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.

Easy Clean Up:

Arctic Alumina can easily be cleaned from CPUs and heatsinks with ArctiClean, isopropyl alcohol or any of the cleaners listed in the product instructions.

Compliance: RoHS Compliant.

Specifications:

Average Particle Size:

<0.39 micron <0.000015 inch (65 particles lined up in a row equal 1/1000th of an inch.)

Temperature Limits:

Peak: -40°C to >160°C
Long-Term: -40°C to 125°C

Coverage Area:

1.75-gram syringe. (Approximately 1cc)
At a layer 0.003" thick, one syringe will cover about 24 square inches.

14-gram syringe. (Approximately 9cc)
At a layer 0.003" thick, one syringe will cover about 192 square inches.



Related Information:

Arctic Alumina MSDS:

[Material Safety Data Sheet](#)

Instructions:

[How to apply thermal compound](#)

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Reviews:

[Overclocker's Club](#)

[Little White Dog](#)

[Mikhailtech](#)

[TargetPC](#)

Important Reminder:

Due to the unique shapes and sizes of the particles in Arctic Alumina, it will take a minimum of 36 hours and several thermal cycles to achieve maximum particle to particle thermal conduction and for the heatsink to CPU interface to reach maximum conductivity. (This is not a limitation of the compound, but a limitation of the heat transfer process.)

period will be longer in a system without a fan on the heatsink.) On systems measuring actual internal core temperatures via the CPU's internal diode, the measured temperature will often drop slightly over this "break-in" period. This break-in will occur during the normal use of the computer as long as the computer is turned off from time to time and the interface is allowed to cool to room temperature. Once the break-in is complete, the computer can be left on if desired.

Sold in Syringe or Container:

Retail Product Available	Where to Buy	
AA-1.75G Syringe	Authorized Reseller	
	USA	International
AA-14G Syringe	Authorized Distributor (No Retail Sales)	
	USA	International

OEM/Commercial Product Available	Where to Buy
AA-75G Syringe	OEM/Commercial Users: oeinfo@arcticsilver.com Voice: 559-740-0912
1 Kilo Minimum Bulk Container	
OEM/Commercial products are sold direct from Arctic Silver, Inc. If you need additional information or would like to purchase, please contact us.	

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