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Alphacool 2-part thermal adhesive is perfect for mounting coolers onto items such as motherboard VRMs. The 2-part epoxy-based adhesive is the optimal choice when coolers need to be mounted more securely onto the CPU or GPU of single-board computers (Raspberry PI, ODROID, Arduino, Cubieboard etc.). The field of application is so wide that even coolers on electronic components in power amplifiers or RC vehicles can be reliably and stably bonded.

Alphacool Core 2-Component Thermal Glue 5g



- Electrically non-conductive
- High thermal conductivity
- Versatile

We assume no responsibility for any typing errors.

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Scope of delivery

1x Alphacool Compound Black (adhesive) 4g applicator

1x Alphacool Compound Yellow (activator) 1g applicator

2x plastic spatula

Technical data

Mixing ratio (adhesive : activator)	4 : 1
Thermal conductivity:	0,9 W/mK
Surface curing (at 25°C):	2 h
Total curing (at 25°C):	5-7 Tage
Boiling point:	>200°C
Flash point:	>88°C
Specific gravity (yellow component):	0,97 g/cm ³
Specific gravity (black component):	2,08 g/cm ³

Ingredients (component black)

Epoxy resin:	20 - 22 %
Aluminium nitride:	70 - 73 %
Epoxy diluent:	4 - 6 %
Substituted silane:	0.1 - 0.2 %
Carbon black:	0,5 - 1 %
Total weight:	4 g

Ingredients (component yellow)

Polyamide:	80 - 100 %
Additive:	0 - 5 %
Total weight:	1 g

Download links

Product images	https://www.alphacool.com/download/1020421_Alphacool_Core_2-
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Packing dimensions 1 unit

L x B x H	20 x 11 x 1,5 cm
Total weight	0,021 kg

Other data

Certification	CE, FC, RoHS
EAN	4250197130042
Customs number	84733080000

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Article text

Alphacool 2-part thermal adhesive is perfect for mounting coolers onto items such as motherboard VRMs. The 2-part epoxy-based adhesive is the optimal choice when coolers need to be mounted more securely onto the CPU or GPU of single-board computers (Raspberry PI, ODROID, Arduino, Cubieboard etc.). The field of application is so wide that even coolers on electronic components in power amplifiers or RC vehicles can be reliably and stably bonded.

Properties

The Alphacool 2-part thermal adhesive is electrically non-conductive. The high metallic content of aluminium nitride (70 - 73 %) guarantees optimal thermal conductivity (0.9 W/mK). The thermal adhesive creates a stable adhesive bond. Due to the material composition, mechanical variances between the components to be bonded can also be compensated well. Surface curing is achieved after 2h (at 25°C ambient temperature). Complete curing takes place within 5 to 7 days (at 25°C ambient temperature).

Application

All surfaces must be clean and free of grease, dust or contaminants. Important: The processing time is limited! As a rule, the processing time is about 10 minutes until the adhesive starts to cure. Adhesive (black) and applicator (yellow) must be thoroughly mixed in a ratio of 4:1 on a clean surface for approx. 2 to 3 minutes with a spatula. Perfect mixing is important to ensure an optimum bond. The two-part adhesive can then be applied thinly to the surfaces to be bonded using a spatula. Finally, the components to be bonded are pressed together. Higher ambient temperatures during processing ensure effective curing of the adhesive and increase strength at higher temperatures.