

Alphacool Eisfrost Xtreme liquid metall paste 1g

Alphacool article number: 12879



Quick Info

Alphacool Eisfrost Xtreme is a high-performance liquid metal thermal compound. Conventional thermal conductive pastes usually use silicone as a base. These are often mixed with silver or similar metals to increase the cooling performance. Nevertheless, the cooling capacity of a liquid metal thermal compound is many times higher.

Scope of delivery

1x Alphacool Eisfrost Xtreme liquid metall paste 1g

Technical data

specific heat capacity	320 J/ (kgK)
Electrical conductivity	3,29 MS/m
spec. electrical resistance	0,453 $\Omega \cdot \text{mm}^2/\text{m}$
spec. weight	6,44 g/cm ³ bei 20 °C
Viscosity rotational viscometer	6 m Pa · s bei 20 – 110 °C
Surface tension	0,38 N/m
Melting temperature	- 19,3 °C

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Product pictures	12879_Alphacool_Eisfrost_Xtreme_liquid_metall_paste_1g_pics.zip
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Packaging dimensions per unit

L x W x H	175 x 80 x 20 mm
Weight	15 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197128797
Customs code	0

Thermal compound is an issue that many users underestimate. While you usually don't want to compromise on the performance of an air or water cooler, the thermal paste often receives little attention. Yet it is the link between the heat source and the cooler. The thermal paste ensures a clean contact between the CPU or GPU and the cooler. It is therefore essential to use a good thermal compound if you want your high-end cooler to perform at its best. This is especially true if you own a water cooling system.

Alphacool Eisfrost Xtreme is a high-performance liquid metal thermal compound. Conventional thermal conductive pastes usually use silicone as a base. These are often mixed with silver or similar metals to increase the cooling performance. Nevertheless, the cooling capacity of a liquid metal thermal compound is many times higher. This is because the thermal conductivity of conventional heat-conducting pastes is significantly lower than that of Alphacool Eisfrost Xtreme liquid metal heat-conducting paste. This means that the heat is transferred much faster and more effectively from the processor or graphics card to the cooler, for example.

This is particularly noticeable when overclocking. The higher the heat dissipation, the more noticeable the performance of the liquid metal. In combination with a good air cooler, or especially with a good water cooler, you can achieve results that are several degrees Celsius better than with a conventional thermal paste. This may well mean that you can get a few more MHz out of the CPU or GPU. Alternatively, you can of course also cool more quietly if you can achieve lower temperatures. The Eisfrost Xtreme is therefore not just for overclockers, but also for silent enthusiasts.

Applying the Alphacool Eisfrost Xtreme liquid metal thermal compound is much easier than you might think. First, you should thoroughly pre-clean the heatspreader of the CPU or GPU. This is best done with a piece of kitchen roll or toilet paper. Then you can carry out the basic cleaning with the enclosed cleaning cloth. You should avoid touching the heatspreader with your fingers after basic cleaning. The small amount of grease residue on the skin can make it difficult to apply.

You can now apply a small drop of liquid metal to the center of the heat spreader. This should be smaller than a pea. The package contains two special cotton swabs for applying and spreading the liquid metal. This allows the Eisfrost Xtreme heat-conducting paste to be spread very well. However, you should take your time, as the high viscosity of liquid metal means that it can only be spread slowly.

Safety instructions

Liquid metal is conductive. It is essential to prevent the liquid metal from getting onto electronic components in order to avoid a short circuit.

Liquid metal may only be used on the following metals: Copper, gold, silver, lead and zinc.

This also includes nickel-plated copper, as used by most coolers.

It must never be used on aluminum surfaces, as liquid metal attacks and can damage aluminum.

Due to its high surface tension, liquid metal should only be applied to a flat surface to prevent it from flowing away quickly.

The liquid metal contains neither mercury nor toxic heavy metals such as lead. It is therefore non-toxic, non-flammable, non-explosive and does not form any vapors. We can send you a safety data sheet by e-mail on request.