

Alphacool Eisschicht Ultra Soft thermal pad 3W/mk 100x100x1,5mm

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Quick Info

The Eisschicht Ultra Soft are Alphacool's performance oriented solution in the range of thermal pads. Due to their outstanding properties, they can almost be compared to a thermal paste. These Ultra Soft thermal pads nestle much better to components, which contributes to a significant improvement in cooling performance.

- nestle optimally to components
- optimum air displacement, hardly any air inclusions
- Extremely high durability

Scope of delivery

1x Alphacool Eisschicht Ultra Soft thermal pad 3W/mk (100x100x1,5mm)

Technical data

L x W x H	100 x 100 x 1,5mm
Specific Gravity ASTM D297	2,65 g/cc
Thermal Conductivity ASTM D5470	3.0 W/mK
Hardness ASTM 2240	20 Shore 00
Working temperature	40 to 200°C
Outgassing ASTM E595	0,40% TML
Volume Resistivity ASTM D257	6.2X10 high 13 Ohm-meter
Dielectric Constant ASTM D150	5,5 MHz
Dielectric Breakdown Voltage ASTM D149	>5000 VAC
Flame Rating UL E331100	94 V0
Color	white

Download links

Safety data sheet	13455_Alphacool_Eisschicht_Ultra_Soft_thermal_pad_3W-mk_100x100x1,5mm_SDS.pdf
Product pictures	13455_Alphacool_Eisschicht_Ultra_Soft_thermal_pad_3W-mk_100x100x1,5mm_pics.zip

Packaging dimensions per unit

L x W x H	240 x 240 x 5 mm
Weight	10 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197134552
Customs code	84733080000

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Better than standard thermal pads?

The material of the Ultra Soft thermal pads acts similar to a thermal paste. While normal thermal pads are only pressed together by the contact pressure there can be areas that are uneven due to different high components, making them less effective. With the ultra soft Eisschicht this problem doesn't exist because the material distributes itself similar to thermal paste and thus prevents the highest components from being subjected to increased contact pressure by the cooler. As standard thermal pads are quite stiff they can also cause too much pressure on components. In the worst cases, this can cause the PCB to bend and even break. Due to the soft consistency of the Ultra Soft Eisschicht any excess material can spread out rather than cause problems. The Ultra Soft Eisschicht is not only performance orientated, but also safer!

But this is not the only advantage!

Moreover, the special material cannot dry out. Usually the silicone in thermal pads bleeds out over time. This makes them hard and the performance of the pads drops rapidly from a certain point. This is not the case with the Ultra Soft Eisschicht. They can be used over a much longer period of time without significantly losing performance.

A thermal pad with fabric?

The consistency of the heat conducting material is similar to a viscous heat conducting paste. A special fabric is embedded so that the material remains stable and can be used as a thermal pad. This ensures a perfect distribution of the material if the element to be cooled has an uneven shape. Examples include voltage transformers, VRam and similar electronic components of all kinds that require cooling.

Cutting? No problem!

To cut the thermal pads to size, you should definitely leave the foil on the pads. So the pads can easily be cut to size with a pair of scissors. This is just as easy as cutting paper. The cut edges remain perfectly clean and do not fray.