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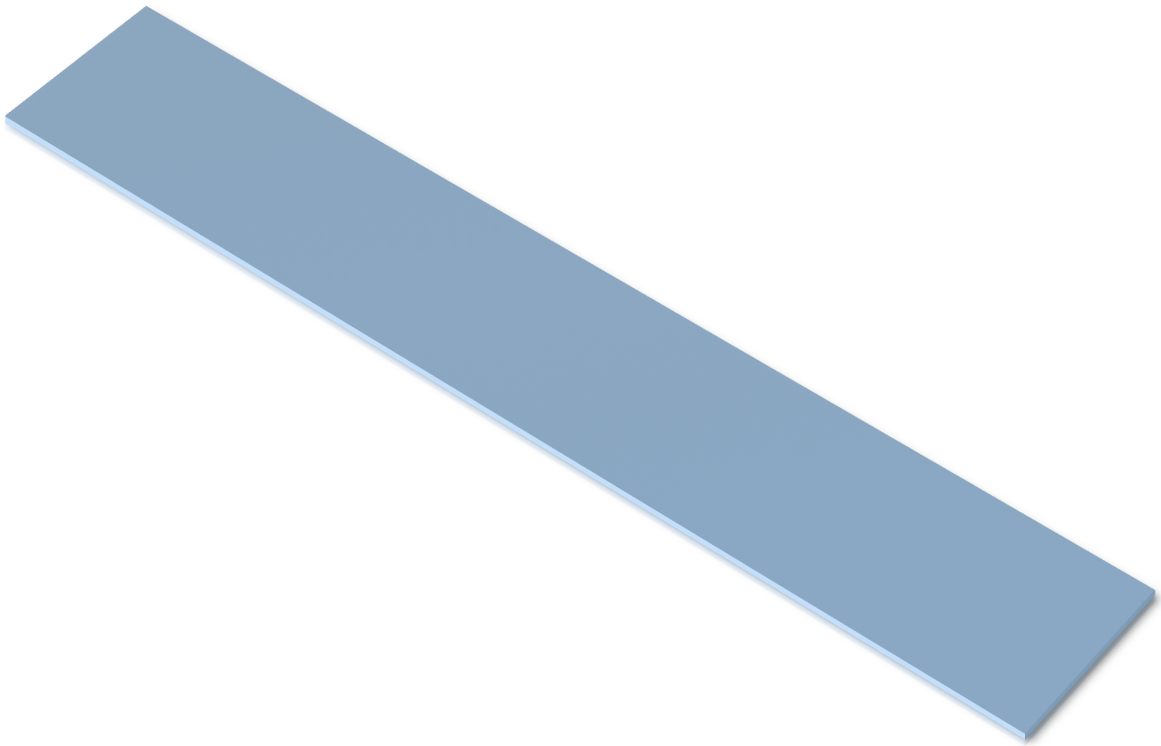
# Alphacool Core Thermal Pad Soft 6.2W/mk 120x20x1mm

Alphacool article number: 13413



## Quick Info

Alphacool's performance thermal pad can be used to cool electronic components of all kinds where it is essential to effectively dissipate waste heat. In addition to voltage converters and VRAMs on graphics cards, electronic components of Playstation and Xbox game consoles can also be cooled, greatly improving their performance and durability.

- High thermal conductivity
- Low thermal resistance
- High compressibility and compliancy
- Natural tack
- Good electrical insulation

## Scope of delivery

1x Core Thermal Pad Soft 6.2W/mk 120x20x1mm

We assume no responsibility for any typing errors. Alphacool International GmbH, Marienberger Strasse 1, 38122 Braunschweig Tel: (+49)0531 288 740 Supportmail: info@alphacool.com

## Technical data thermal pad

| | |
|---|---|
| Dimensions (L x W x H) | 120 x 20 x 1mm |
| Thermal Conductivity (ASTM D5470) | 6.2 W/mK (±10%) |
| Hardness (ASTM D412) | 50 (Shore 00) (±15) |
| Working temperature | -50 to ~150°C |
| Volume Resistance (ASTM D257) | $1\times10^{13}$ Ohm-m |
| Dielectric Breakdown Voltage (ASTM D149) | 6 KV/mm (±10%) |
| Density (ASTM D792) | 3.1 g/cm³ (±10%) |
| Elongation (ASTM D412) | 50% |
| Weight Loss (ASTM E595) | less than 1% |
| Flame Rating (UL 94) | V-0 |
| Color | blue |

## Download links

| | |
|---|---|
| Safety data sheet | 13413_Alphacool_Core_Thermal_Pad_Soft_6.2W-mk_120x20x1mm_SDS.pdf |
| Product pictures | 13413_Alphacool_Core_Thermal_Pad_Soft_6.2W-mk_120x20x1mm_pics.zip |

## Packaging dimensions per unit

| | |
|---|---|
| L x W x H | 130 x 130 x 2 mm |
| Weight | 22 g |

## Other data

| | |
|---|---|
| Certificates | CE, FC, RoHS |
| EAN | 4250197134132 |
| Customs code | 84733080000 |

## Article text

Alphacool's performance thermal pad can be used to cool electronic components of all kinds where it is essential to effectively dissipate waste heat. In addition to voltage converters and VRAMs on graphics cards, electronic components of Playstation and Xbox game consoles can also be cooled, greatly improving their performance and durability.

**Better than standard thermal pads?**

The silicone-based Soft heat conduction pad is characterized by optimal compressibility. Due to its low hardness and a natural stickiness, the Core thermal pad adapts perfectly to surfaces, compensates for unevenness between components and thus ensures a significant improvement in heat transfer.

**Increased service life!**

The special material composition of the Core thermal pad reduces the risk of silicone bleeding. It can be used for a substantially longer period of time than conventional heat conduction pads without significantly losing performance.

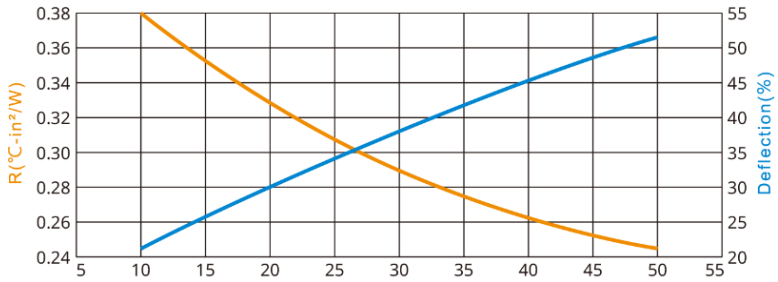
**Versatile use!**

Due to its excellent electrical insulation (electrically non-conductive), Alphacool's thermal pad can also be used to cool electronic components in electric vehicles, autopilot systems, cell phones, servers, motherboards, power supplies, LCD TVs, notebooks, telecommunication devices, access points, memory modules, etc.

# Drawing

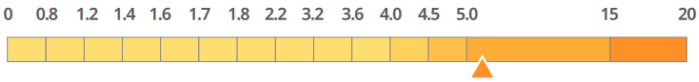
## Properties

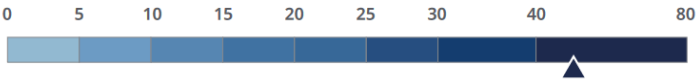
### Thermal Resistance vs. Pressure vs. Deflection




| Pressure(psi) | R(°C-in²/W) | Deflection(%) |
|---|---|---|
| 10 | 0.380 | 21 |
| 30 | 0.290 | 38 |
| 50 | 0.245 | 52 |

**Thermal Conductivity :** 6.2 W/mK




**Hardness :** 50 (Shore 00)