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Alphacool Apex 2 Thermal grease 2g

Alphacool article number: 14755



Quick Info

The Alphacool Apex 2 is the next generation of the proven Apex Thermal Grease. Its new formula offers better cooling performance than its predecessor on both CPUs and GPUs, with particularly clear improvements at GPU hotspots. This makes it ideal for high-performance CPUs and GPUs, overclocking systems, workstations, and servers.

- High cooling performance
- Optimized Heat Transfer
- Cooperation with Halnziye

Scope of delivery

1x Apex 2 Thermal grease
1x Thermal Paste Applying Card
1x Grease Cleanser
1x Putty tool

We assume no responsibility for any typing errors. Alphacool International GmbH, Marienberger Strasse 1, 38122 Braunschweig Tel: (+49)0531 288 7400 Supportmail: info@alphacool.com

Technical data

Color	Gray
Density (in g/ml)	2.6~2.7
Viscosity@ 20°C (in Pa s)	130 ~140
Thermal conductivity (in W/m-K)	6.7
Thermal impedance (in °C in²/W)	0.0006
Weight loss after 96 hours@100°C	0.1%
Permittivity @ 106Hz	2.3
Volume resistivity (in Ohm.cm)	2.0 x 10^13
Dielectric strength (in KV/mm)	2.0
Working Temperature (in °C)	-20 ~ 130

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Safety data sheets	14755_Alphacool_Apex_2_Thermal_grease_2g_SDS(1).pdf 14755_Alphacool_Apex_2_Thermal_grease_2g_SDS(2).pdf
Product pictures	14755_Alphacool_Apex_2_Thermal_grease_2g_pics.zip
EU-DoC / CE / RoHS	Alphacool_EuDoc_CE_RoHS_14755.pdf

Packaging dimensions per unit

L x W x H	135 x 55 x 20 mm
Weight	26 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197147552
Customs code	39269097900

Article text

The Alphacool Apex 2 is the next generation of the proven Apex Thermal Grease. Its new formula offers better cooling performance than its predecessor on both CPUs and GPUs, with particularly clear improvements at GPU hotspots. This makes it ideal for high-performance CPUs and GPUs, overclocking systems, workstations, and servers.

The Apex 2 thermal grease was developed in close cooperation with Halnziye. Their many years of experience with thermal interface materials shaped every stage of development, from the new formula to its practical implementation. Rather than simply improving the previous formula, the Apex 2 thermal grease was developed from the ground up to meet the high thermal demands of modern components.

To improve heat transfer, the Apex 2 Thermal Grease fills microscopic gaps between the contact surface and the cooler. This reduces small air pockets and allows heat to move more efficiently to the cooler. Its high thermal conductivity and low thermal resistance support fast heat dissipation, helping the cooler perform at its best. Since the formula is electrically non-conductive, the thermal grease is also suitable for use on sensitive electronic components.

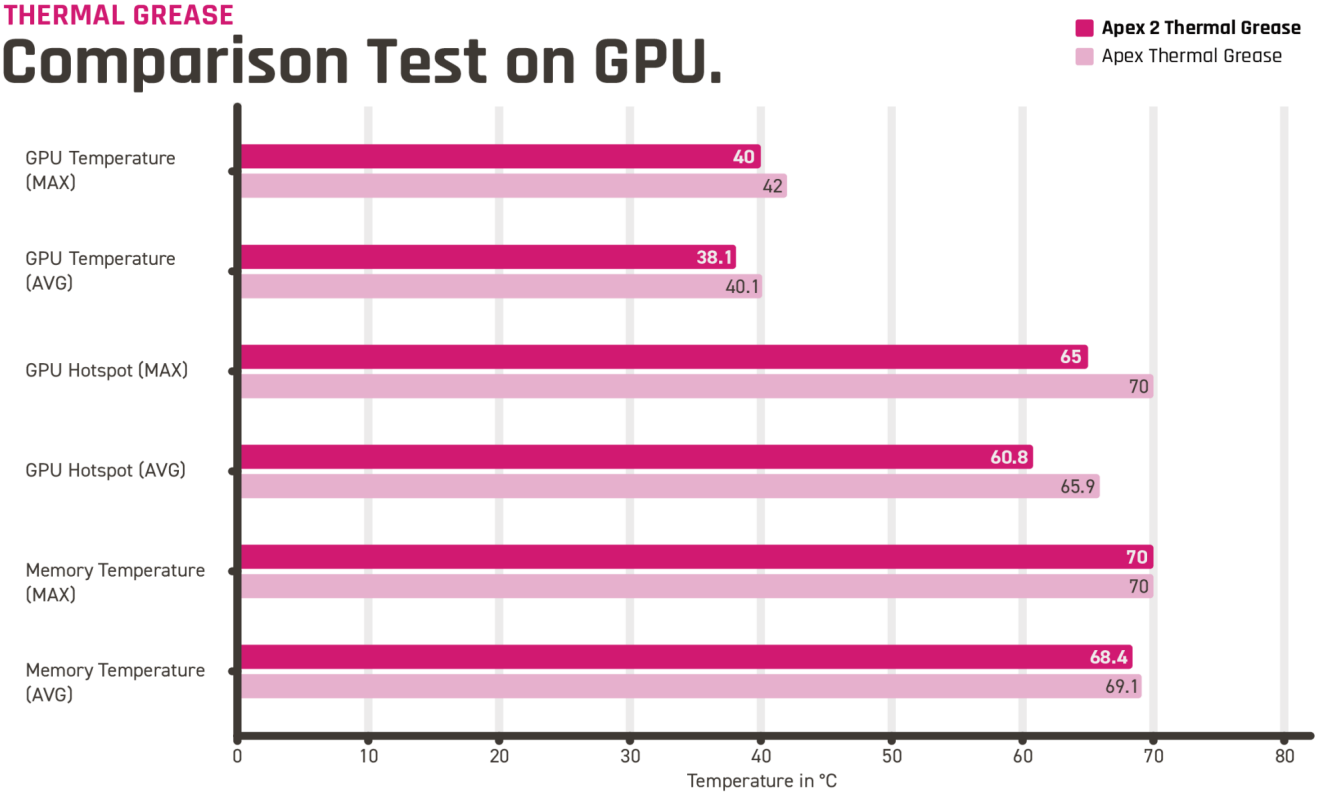
The paste is designed for smooth, controlled application and spreads evenly across the contact surface. Warming it in your hands for a few moments before use improves its workability and makes it easier to apply a thin, uniform layer.

The Apex 2 thermal paste also comes with an updated accessory set. In addition to the Putty Tool, the package includes an application card for spreading the paste evenly and an alcohol wipe for cleaning the contact surfaces before use.

Figure

THERMAL GREASE

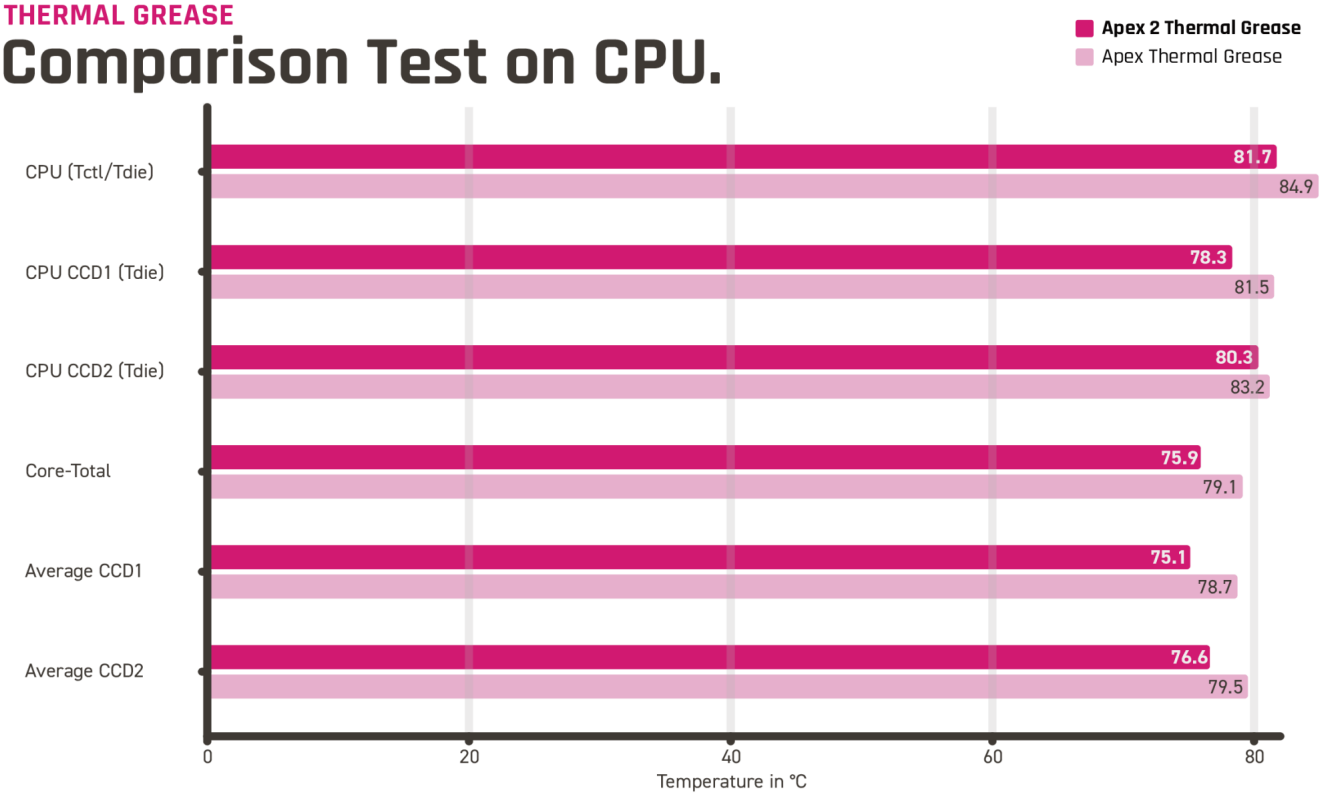
Comparison Test on GPU.



Test setup: PowerColor Hellhound Radeon RX 9070 XT fitted with the Alphacool Core RX 9070 XT Hellhound + Pure water block with backplate (14782). The cooling loop uses an Alphacool VPP Apex pump running at full speed, an Alphacool NexXxoS HPE-30 Full Copper 360 mm radiator, and three Apex Stealth fans operating at 2,000 RPM. Ambient room temperature ranged from 26.3 to 26.7 °C.

THERMAL GREASE

Comparison Test on CPU.



Test setup: AMD Ryzen 9 9950X3D cooled with the Alphacool Core 1 (13445). The cooling loop uses an Alphacool VPP Apex pump running at full speed, an Alphacool NexXxoS HPE-30 Full Copper 360 mm radiator, and three Apex Stealth fans operating at 2,000 RPM. Ambient room temperature ranged from 25.5 to 25.8 °C.