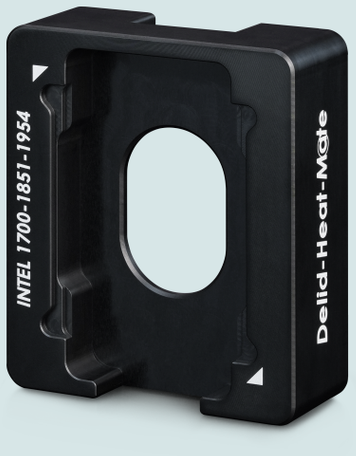
Delid-Heat-Mate



High Performance Cooling Solutions - Made in Germany

The Delid-Heat-Mate is a fixture designed for oven heating of compatible soldered processors for AMD AM5 and Intel LGA 1700, LGA 1851 and LGA 1954 sockets. It complements Thermal Grizzly's Delid-Die-Mate and simplifies the removal of the heatspreader (delidding). A Delid-Die-Mate compatible with the respective CPU is required and available separately.

In the recommended two-stage delidding process, the heatspreader of the unheated CPU is first moved back and forth once using the appropriate Delid-Die-Mate. This breaks the adhesive bond and initially loosens the indium solder connection. The CPU is then placed upside down in the Delid-Heat-Mate and heated in a preheated oven at 165–175 °C. Indium melts at approximately 157 °C. Heating melts the indium solder, allowing the heatspreader to detach under its own weight. This typically occurs after 10–15 minutes. Combining mechanical loosening with heating reduces the need to repeatedly move the heatspreader back and forth. This can reduce mechanical stress on the CPU die and the risk of damaging components on the PCB.

Removing the heatspreader enables direct-die cooling, in which a compatible CPU cooler is mounted directly onto the silicon chip. The improved heat transfer can lower CPU temperatures, providing additional headroom for higher performance or quieter operation.

Short Information

- CPU fixture for oven heating
- Compatible with supported AMD AM5 and Intel LGA 1700/1851/1954 processors
- Heatspreader detaches under its own weight when heated
- Reduced mechanical stress during delidding
- Compatible Delid-Die-Mate required (available separately)

Technical Data

Parameter:	Value/Description:
Typical application:	CPU fixture for heating
Compatible CPU sockets:	AMD AM5; Intel LGA 1700/1851/1954
Heat source:	Oven (external)
Recommended oven temperature:	165–175 °C
Maximum oven temperature:	180 °C
Typical heating time:	10–15 min
Material:	Aluminum
Color:	Black, anodized
Length:	66.6 mm
Width:	56.0 mm
Height:	21.8 mm
Packaging dimensions:	69.2 × 62 × 23 mm
*Gross weight:	108 g
*Net weight:	101 g
Product number:	TG-DHM-01
EAN code:	4260711994685
Packaging unit:	20 pcs.

*Net weight refers to the total weight of an item excluding packaging and accessories. Gross weight refers to the total weight of the product including accessories and packaging. Minor weight variations may occur due to manufacturing processes.

Trademark Information

Thermal Grizzly is a registered trademark.

Compatibility

- AMD AM5
- Intel LGA 1700
- Intel LGA 1851
- Intel LGA 1954

Scope of Delivery

- 1 × Delid-Heat-Mate

For compatible soldered CPUs only, in conjunction with a Delid-Die-Mate suitable for the respective CPU. Before use, verify that the processor is compatible with both the Delid-Heat-Mate and the Delid-Die-Mate being used.

Warnings

Caution: Removing the heatspreader (delidding) is performed at your own risk. Delidding voids the CPU manufacturer's warranty. Damage to the processor may occur.

The oven temperature must not exceed 180 °C. Monitor the temperature and heating time. Stop heating once the heatspreader has detached, but no later than after 30 minutes. The oven temperature does not necessarily correspond to the CPU temperature. If the heatspreader has not detached after 30 minutes, allow the CPU and fixture to cool completely before repeating the mechanical loosening and heating steps once. If the second attempt is also unsuccessful, customer support must be contacted before attempting the process again.

Never heat the CPU in a microwave. Do not use an iron or a heat gun. Wear suitable heat-resistant protective gloves when handling heated parts and place heated parts only on fire-resistant surfaces.

Before use, read and follow the complete instructions for the Delid-Heat-Mate and the respective Delid-Die-Mate.

Please Note

The information provided in this technical datasheet is based on our current knowledge and experience. Due to the wide range of factors that may affect application, this information does not relieve processors and users of the responsibility to conduct their own tests and trials. No legally binding assurance of specific properties or suitability for a particular application can be derived from our statements.

We reserve the right to change product specifications as part of technical progress or further product development. Our recommendations do not release users from their obligation to investigate and, if necessary, resolve any potential infringement of third-party intellectual property rights. Depending on the individual case, we recommend consulting us. Subject to printing errors.

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