

# Duronaut

## High Performance Cooling Solutions

Thermal Grizzly introduces "Duronaut," a new high-end thermal paste that combines exceptional long-term stability with maximum thermal conductivity. The name "Duronaut" is derived from the English word "durability," reflecting its outstanding resilience. This stability is achieved through specially formulated silicone oil and a combination of aluminum micro-powder and zinc oxide nano-powder in varying shapes. The unique particle shape and size minimize the so-called pump-out effect while ensuring excellent adhesion to surfaces, resulting in a low thermal resistance.

The pump-out effect refers to the displacement of thermal paste due to temperature fluctuations, which can occur between a heat spreader and a CPU cooler. This effect is less pronounced at lower temperatures but significantly increases at higher temperatures. It becomes particularly critical with components made from different materials with varying thermal expansions, such as a silicon chip (e.g., in GPUs) and a copper heatsink.

Duronaut's exceptional thermal conductivity is achieved through a specially developed silicone matrix as the carrier material, filled with a high proportion of thermally conductive micro- and nanoparticles. The small particle size allows for an extremely thin application layer, ensuring superior overall performance through this combination of minimal layer thickness and highly conductive fillers.

For optimal application of Duronaut, the high-end thermal paste comes with the TG Spatula Pro. The redesigned spatula allows for greater pressure to be applied to the surface during application. This enables the thermal paste to be spread more efficiently and in a thinner layer.



## Short Information

- Exceptional long-term stability
- Outstanding thermal conductivity
- Electrically non-conductive
- No curing required

## Scope of Delivery

- 1x Duronaut
- 1x Applicator
- 1x TG Spatula
- 1x TG Spatula Pro

## Trademark Information

Thermal Grizzly is a registered trademark.

## Please note

The data in this technical data sheet are based on our current knowledge and experience. Due to the large amount of possible factors, this should not be construed as to release the users from doing their own tests and screening. No legally binding assurance of specific properties or applicability for a concrete purpose should be derived from these data. Please consider contacting us for further detail. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

## Technical data

Unit:	Value/Description:		
Colour:	Grey		
Electrical conductivity:	0 pS/m		
Typical application:	CPUs, GPUs, notebooks, ICs		

Item number:	EAN-Code:	Weight:	Package size:	*Net weight:	*Gross weight:	PU:
TG-D-006	4260711991141	6g	20x10x1.5 cm	10.5 g	23.5 g	25 Pcs.
TG-D-002	4260711991134	2g	20x10x1.5 cm	4.5 g	17 g	40 Pcs.

\*Net weight is the total weight of an article excluding the weight of packaging and accessories. The gross weight refers to the total weight of the product including accessories and packaging. Slight weight deviations are possible due to production factors.

## Thermal interface material – Paste 30x30 240 W

