

Duronaut PRO

High Performance Cooling Solutions

Duronaut Pro is a high-end thermal paste whose development focused not only on optimizing thermal conductivity compared to Duronaut, but also on achieving exceptionally high long-term stability. The name "Duronaut" is derived from the English term "durability." This exceptionally high long-term stability is achieved through a specially developed silicone oil as well as the combination of aluminum micropowder and zinc oxide nanopowder in different forms. The optimized particle shape and size minimize the so-called pump-out effect and ensure excellent adhesion of the paste to the surface. This results in an extremely low thermal contact resistance.

The pump-out effect describes the expulsion of thermal paste due to temperature fluctuations, such as those that can occur between the heatspreader and CPU cooler. While this effect is less pronounced at low temperatures, it increases significantly at high temperatures. This is particularly critical in components made of different materials with differing coefficients of thermal expansion, for example between a silicon chip, such as in GPUs, and a copper heatsink.

The exceptional thermal conductivity of Duronaut Pro is achieved through a specially developed silicone matrix used as the carrier material, which is filled with a high proportion of thermally conductive micro- and nanoparticles. Thanks to the small particle size, Duronaut Pro achieves an extremely thin bond line in application. This combination of minimal bond-line thickness and highly conductive fillers gives Duronaut Pro outstanding overall performance.

For optimal application of Duronaut Pro, the high-end thermal paste includes the TG Spatula Pro. The revised spatula design makes it possible to apply more pressure to the surface during application. This allows the thermal paste to be applied more efficiently and in a thinner layer.

Trademark Information

Thermal Grizzly is a registered Trademark.



Scope of Delivery

- 1x Duronaut Pro
- 1x TG Spatula
- 1x TG Spatula Pro
- 1x Applicator
- 1x Certificate of Origin

Short Information

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

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

Name:	Item number:	EAN code:	Packaging size:	*Net weight:	*Gross weight:
Duronaut Pro	TG-DP-002	4260711992902	10 x 19.6 x 1.5cm	2g	12g
Duronaut Pro	TG-DP-006	4260711992889	10 x 19.6 x 1.5cm	6g	16g
Duronaut Pro	TG-DP-030	4260711992919	8,2 x 4.2 x 6.1cm	30g	58g

*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.