

PRODUCT DATA SHEET

METALLIQ SERIES

EXTREME High-PERFORMANCE PLUS THERMAL COMPOUND

The METALLIQ series from Thermal Hero offers liquid metal made of gallium indium for extremely high cooling performance. Rapid heat dissipation at high temperatures. Care must be taken when applying as it is electrically conductive. Ideal for fast cooling at high CPU temperatures, but requires specific application instructions.

APPLICATION QUANTITIES: Small CPUs (LGA 11xx, LGA12xx, AM4, FM2+): 1g for approx. 3-4 applications, 2g for approx. 7-8 applications, 5g for approx. 15-20 applications. Large CPUs (LGA 20xx, TR4, Server): approx. 1g for 1-2 applications, 2g for 2-4 applications, 5g for 5-10 applications.

Package contents: Syringe with xg liquid metal paste, 2x cleaning cloths, 2x syringe tips, 2x cotton buds, instructions for use.

FEATURE

- Extremely high thermal conductivity ($\leq 80.0 \text{ W/MK}$) fast heat dissipation | high cooling capacity | long-term stability at high CPU & ambient temperatures
- Suitable for all high-end gaming & EXTREME OVERCLOCKING, high-end server systems, all types of CPUs, GPUs, PS 3/4/5, XBOX, game consoles.
- Produced in Germany, ore purity >99%. Shelf life >10 yrs. When used at room temperature (19-20°C) approx. 5 yrs. Usability possibly longer
- Electrically conductive! AVOID contact with electrical components! PLEASE DO NOT USE METALLIQ ON ALUMINIUM & ALUMINIUM/Copper cooling plates (DHT).
- Developed according to German quality standards. Storage unopened ≤ 5 yrs. at room temperature. Reapplication after 2 yrs. Use on the CPU recommended.



ENGINEERED IN GERMANY
PRODUCED IN GERMANY

TECHNICAL PROPERTIES

PERFORMANCE	EXTREME HIGH THERMAL CONDUCTIVITY
COLOR	Silver/white
Purity	99.99%
THERMAL RESISTANCE R_{th}	$0.0061 \text{ } ^\circ\text{C}\cdot\text{in}^2/\text{W}$
THERMAL CONDUCTIVITY	$\leq 80 \text{ W/m}\cdot\text{k}$
DENSITY	6.4 g/cm^3
Boiling Point	$>1.300 \text{ } ^\circ\text{C}$
ROHS	Yes
COROSSION ON METAL	No
OPERATING TEMPERATURE	$550 \text{ } ^\circ\text{C}$
ELECTRICAL CONDUCTIVITY	Yes
AVOID USING ON ALUMINIUM!	

SERIES	METALLIQ	METALLIQ	METALLIQ
MODEL	TH-108001	TH-108002	TH-108005
EAN/UPC	0746603758817	0746603758824	0746603758831
Weight/Size	1g	2g	5g
MSRP	\$ 9,90	\$ 18,90	\$ 39,90

Unsere technischen Datenblätter beruhen auf Tests und Bewertungen, die unter bestimmten Bedingungen und mit bestimmten Geräten durchgeführt wurden, sowie auf den Erfahrungen unseres Unternehmens. Wir können jedoch nicht garantieren, dass die Eigenschaften unserer Produkte perfekt auf Ihre spezifischen Anforderungen abgestimmt sind. Wir weisen darauf hin, dass es sich bei unseren Tests nur um Momentaufnahmen handelt, die nicht unbedingt repräsentativ für den täglichen Gebrauch sind. Wir empfehlen daher den Anwendern unserer Produkte, eine umfassende Evaluierung durchzuführen und gegebenenfalls externe Experten hinzuzuziehen, um sicherzustellen, dass unsere Lösungen optimal an ihre Bedürfnisse angepasst sind.

PRODUCT DATA SHEET

NEO SERIES

High Conductive Thermal Paste

Thermal Hero NEO is a premium thermal compound with excellent thermal properties. It has very good flow properties, low thermal resistance and high thermal conductivity. This enables a minimum layer thickness and excellent cooling performance with low contact pressure. Easy to apply and non-sticky. Ideal for CPUs, GPUs and chipsets. NEO significantly lowers the processor temperature for stable and long-lasting hardware use.

APPLICATION QUANTITIES: Small CPUs (LGA 11xx, LGA12xx, AM4, FM2+): 1g for approx. 4-6 applications, 2g for approx. 8-10 applications, 4g for approx. 18-24 applications, 10g for approx. 45-60 applications, and 25g for up to approx. 140 applications. Large CPUs (LGA 20xx, TR4, Server): approx. 1g per application, 25g for approx. 23-25 applications.

Contents: 1g NEO thermal paste in a black syringe | 1x cleaning cloth (99% isopropanol) | 1x spatula for spreading | 1x instructions for use.

Features:

- High thermal conductivity ($\leq 12.0 \text{ W/Mk}$) and low thermal resistance. Optimum heat dissipation from CPU/GPU to cooler. NEO quickly achieves full stability.
- For air and water coolers, ideal for CPUs & GPUs of all sizes, gaming consoles (PS4, PS5, Xbox) & laptops. Overclocking, gaming, system building, industry
- Easy to apply, either by pressing on the radiator or with the enclosed spatula. Ideal for radiators with low contact pressure.
- Developed according to German quality standards. Storage unopened ≤ 5 yrs. at room temperature. Reapplication after 2 yrs. Use on the CPU recommended.



ENGINEERED in GERMANY

TECHNICAL PROPERTIES

PERFORMANCE	HIGH THERMAL CONDUCTIVITY
COLOR	GREY
Viscosity/Flow Property	215 PAS
THERMAL RESISTANCE R_{th}	$0.009 \text{ }^{\circ}\text{C}\cdot\text{in}^2/\text{W}$
THERMAL CONDUCTIVITY	$\leq 12 \text{ W/m}\cdot\text{k}$
DENSITY	$2.8\text{g}/\text{cm}^3$
MINIMAL BLT	$25\text{-}30\mu\text{m}$
ROHS	Yes
COROSSION ON METAL	No
OPERATING TEMPERATURE	$-50 \sim 220 \text{ }^{\circ}\text{C}$
ELECTRICAL CONDUCTIVITY	No

SERIES	NEO	NEO	NEO	NEO	NEO	NEO
MODEL	TH-201201	TH-201202	TH-201204	TH-201210	TH-201225	TH-201250
EAN/UPC	0746603759425	0746603759432	0746603759449	0746603759456	0746603759463	0746603759470
Weight/Size	1g	2g	4g	10g	25g	50g
MSRP	\$ 6,90	\$ 7,90	\$ 9,90	\$ 18,90	\$ 36,90	\$ 74,90

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NEO SERIES

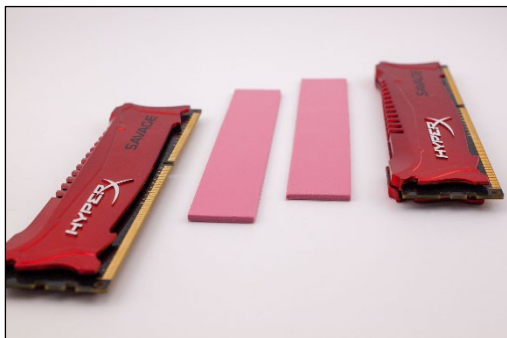
High-PERFORMANCE THERMAL PAD

The Thermal Hero NEO Series Thermal Pads are user-friendly premium thermal pads with a very high thermal conductivity (up to 12W/m*K) and low thermal resistance. They achieve a high cooling performance, which results in a significant temperature improvement compared to standard thermal pads and ensures stable operation of your processors, components and electronic parts under cooler conditions. This contributes significantly to the service life of these parts.

At 30 Shore, NEO Thermal Pads are medium-soft pads with very good compressibility. They can fill unevenness and gaps between surfaces better than harder pads but remain durable and do not dry out. Due to their soft properties, they are easy to work with and can be easily cut to the desired dimensions. These properties make them suitable for both beginners and experts. They are best suited for applications that require higher cooling performance, such as high-end laptops, graphics cards or gaming consoles, where easy installation and a customizable interface are important.

Features:

- HIGH thermal conductivity (≤ 12.0 W/Mk) & low thermal resistance. Extends the service life of processors & components.
- DURABLE do not dry out, safe to use, insulating, non-toxic. 5-year unopened guarantee.
- EASY TO USE. 30 Shore, medium soft. Easy to press, can be cut to size. Adhesive on one side.
- SUITABLE APPLICATIONS: Especially for OVERCLOCKING and GAMING, all kinds of CPU, GPU, IC, PS4/5/XBOX/Gaming consoles.
- CONTENTS: 1 NEO Premium thermal pad 100x100x0.5mm and 1 TH Cleaner Plus 99% isopropyl alcohol cleaning cloth for cleaning and degreasing the surface.



TECHNICAL PROPERTIES

Performance	High Thermal Conductive
Sizes/weight	100x100
Thikness in	0.5mm
Color	red/pink
Thermal Conductivity	≤ 12 W/m*k
Density	3.43g/cm ³
Hardness	30 Shore (Medium Soft)
ROHS Compliance	Yes
Operating Temperature	-50 ~ 220 °C
Electrical Conductivity	Non

AVAILABLE SIZES (mm)		AVAILABLE THIKNESS (mm)
100 x 100	40 x 40	0.5 / 1.0 / 1.5 / 2.0 / 3.0
120 x 20	40 x 30	
50 x 50	30 x 30	

PRODUCT DATA SHEET

QUANTUM SERIES

EXTREME High-PERFORMANCE THERMAL PASTE

Thermal Hero Quantum is a high-performance thermal compound with excellent heat dissipation properties. It has very low thermal resistance with high thermal conductivity. Developed in 2023, the Quantum paste offers very high cooling performance at sustained high CPU and ambient temperatures. It is suitable for the latest and largest generations of processors that are under high and continuous workloads. One of the main properties of the paste is to maintain a stable cooling performance under such conditions so that your computer can deliver the highest possible computing power. This makes the investment in your processor worthwhile in the long term and protects it efficiently.

APPLICATION SIZES: Small CPUs (LGA 11xx, LGA12xx, AM4, FM2+): 1g for approx. 4-5 applications, 2g for approx. 8-10 applications, 4g for approx. 18-20 applications, 10g for approx. 40-50 applications, and 25g for up to approx. 110 applications. Large CPUs (LGA 20xx, TR4, Server): approx. 1g per application, 25g for **approx. 23-25 applications.**

Features:

- High thermal conductivity ($\leq 17.0 \text{ W/Mk}$) & low thermal resistance. Efficient heat dissipation from CPU/GPU to cooler. Fast performance stability, with temperature increases.
- For air and water coolers, ideal for CPUs & GPUs of all sizes, gaming consoles (PS4, PS5, Xbox) & laptops. Overclocking, gaming, system building, industry
- Simple APPLICATION: Easy to apply at room temperature using cooler pressure or the enclosed spatula. Full cooling capacity with increased contact pressure.
- Developed according to German quality standards. Storage unopened ≤ 5 yrs. at room temperature. Reapplication after 2 yrs. Use on the CPU recommended.
- Contents: 1g QUANTUM thermal paste in a black syringe | 1x cleaning cloth (99% isopropanol) | 1x spatula for spreading | instructions for use



ENGINEERED in GERMANY

TECHNICAL PROPERTIES

PERFORMANCE	EXTREME HIGH THERMAL CONDUCTIVITY
COLOR	GREY
Viscosity/Flow Property	230 PAS
THERMAL RESISTANCE R_{th}	$0.0026 \text{ }^{\circ}\text{C}\cdot\text{in}^2/\text{W}$
THERMAL CONDUCTIVITY	$\leq 17 \text{ W/m}\cdot\text{k}$
DENSITY	$3.5\text{g}/\text{cm}^3$
MINIMAL BLT	28-35 μm
ROHS	Yes
COROSSION ON METAL	No
OPERATING TEMPERATURE	-50 ~ 300 $^{\circ}\text{C}$
ELECTRICAL CONDUCTIVITY	No

SERIES	QUANTUM	QUANTUM	QUANTUM	QUANTUM	QUANTUM
MODEL	TH-501701	TH-501702	TH-501704	TH-501710	TH-501725
EAN/UPC	0746603758763	0746603758770	0746603758787	0746603758794	0746603758800
Weight/Size	1g	2g	4g	10g	25g
MSRP	\$ 9,90	\$ 16,90	\$ 24,90	\$ 34,90	\$ 59,90

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ULTRA SERIES

ULTRA High-PERFORMANCE THERMAL PASTE

Thermal Hero ULTRA is a premium thermal paste with ultra-high cooling performance, very low thermal resistance and a thermal conductivity of ≤ 13.0 W/Mk. It is efficient at high CPU temperatures and ideal for newer processor generations with overclocking potential. A key feature is the ability to achieve good cooling performance during processor overclocking. The paste reacts flexibly to temperature changes and dissipates the heat quickly and constantly depending on the performance requirements, which optimally protects the computing power and the processor.

APPLICATION QUANTITIES: Small CPUs (LGA 11xx, LGA12xx, AM4, FM2+): 1g for approx. 4-5 applications, 2g for approx. 8-10 applications, 4g for approx. 18-20 applications, 10g for approx. 40-50 applications and 25g for up to approx. 110 applications. Large CPUs (LGA 20xx, TR4, Server): approx. 1g per application, 25g for approx. 23-25 applications.

Features

- High thermal conductivity (≤ 13.0 W/Mk) and low thermal resistance. Optimum heat dissipation from CPU/GPU to cooler. ULTRA quickly achieves full stability.
- For air and water coolers, ideal for CPUs & GPUs of all sizes, gaming consoles (PS4, PS5, Xbox) & laptops. Overclocking, gaming, system building, industry
- Easy to apply at room temperature using cooler pressure or the enclosed spatula. Full cooling capacity with increased contact pressure.
- Developed according to German quality standards. Storage unopened ≤ 5 yrs. at room temperature. Reapplication after 2 yrs. Use on the CPU recommended.
- Contents: 4g ULTRA thermal paste in a black syringe | 1x cleaning cloth (99% isopropanol) | 1x spatula for spreading | 1x instructions for use



ENGINEERED in GERMANY

TECHNICAL PROPERTIES

PERFORMANCE	HIGH THERMAL CONDUCTIVITY
COLOR	GREY
Viscosity/Flow Property	240 PAS
THERMAL RESISTANCE R_{th}	$0.003^{\circ}\text{C}\cdot\text{in}^2/\text{W}$
THERMAL CONDUCTIVITY	$\leq 13 \text{ W/m}\cdot\text{k}$
DENSITY	$3.45\text{g}/\text{cm}^3$
MINIMAL BLT	$27\text{-}32\mu\text{m}$
ROHS	Yes
COROSSION ON METAL	No
OPERATING TEMPERATURE	$-50 \sim 300^{\circ}\text{C}$
ELECTRICAL CONDUCTIVITY	No

SERIES	ULTRA	ULTRA	ULTRA	ULTRA	ULTRA
MODEL	TH-301301	TH-301302	TH-301304	TH-301310	TH-301325
EAN/UPC	0746603758503	0746603758510	0746603758527	0746603758534	0746603758541
Weight/Size	1g	2g	4g	10g	25g
MSRP	\$ 7,90	\$ 9,90	\$ 12,90	\$ 20,90	\$ 39,90

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