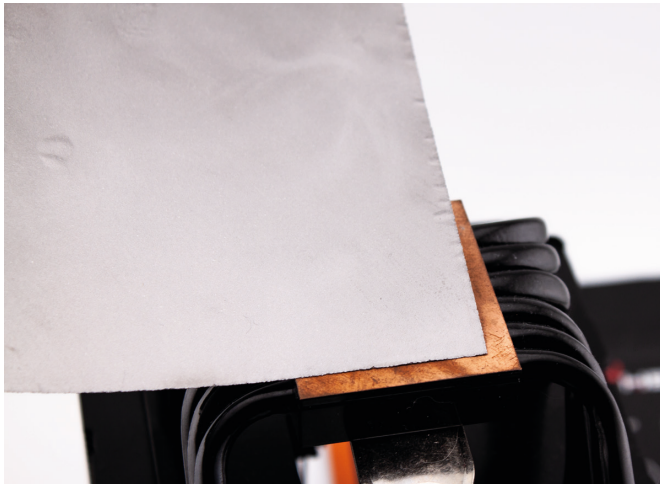


## PRODUCT DATA SHEET GRAHPENEX SERIES

Graphene sheet for heat dissipation

Discover the future of thermal management with Graphenex – the ultrathin graphene sheet from Thermal Hero. With up to five times the thermal conductivity of copper, graphene sets new standards in heat dissipation. Specifically engineered to tackle even the most demanding thermal challenges, these revolutionary graphene sheets, with a thickness of just 0.025 mm, deliver outstanding performance in an exceptionally compact design.



THERMAL HERO ist eine eingetragene Marke.

### Technical Datas

Unit	Wert/Beschreibung
SIZES	100x100   51x68 32x32mm
DENSITY	2.25g/cm <sup>3</sup>
OPERATING TEMPERATURE*	bis 400 °C
LAYER THICKNESS	0.025mm
STRENGTH	80 Shore
ELECTRICALLY CONDUCTIVE	Yes
STORAGE CONDITIONS	Dry

\*Minimum and maximum operating temperature. \*\*Temperature at which the compound changes from solid to liquid state.

### Why Graphenex?

Graphenex leverages the superior properties of graphene, one of the most advanced materials in the world. It combines exceptional thermal conductivity with flexibility and lightweight design, providing efficient and reliable cooling for your electronics.

The information and technical specifications contained in these data sheets are based on tests under specified conditions and on our expertise and that of our partners. These specifications are snapshots and may vary depending on the conditions of use. As numerous factors can influence the performance of our products, the user is responsible for checking the suitability of the products for his specific requirements himself or having them checked by external third parties.

We reserve the right to make changes due to technical developments and printing errors. The user is also responsible for checking whether our recommendations for use may infringe the property rights of third parties.

### PROFIL

#### GrapheneX for extreme applications

**USER CATEGORY:** Professional users, industrial customers, research and development departments.

**TYPE OF APPLICATION:** Easy to use.

**TYPICAL APPLICATIONS:** Smartphones, tablets, laptops, wearables, gaming PCs, servers, workstations

**APPLICATION CLASS:** Extreme applications  
PROFILE

### PROPERTIES

- **High-Thermal conductivity** on horizontal plane to reduce hotspots and solide heat disipation on vertical plane.
- With a **density of 2.15 g/cm<sup>3</sup>**, Graphenex is lightweight, compact, and yet durable—ideal for applications where weight and space are critical.
- **Mechanical Hardness**, with a hardness of 80 Shore, Graphenex offers excellent mechanical stability while remaining flexible enough to conform to irregular surfaces.
- **Low Thermal resistance** due to low layer thickness of only 0.025mm
- **High cooling performance**
- **Longterm stability/Corrosion resistant**
- **Easy to use.**
- **CAUTION! ELECTRICALLY CONDUCTIVE**

### Logistical data

SKU	EAN/UPC (GTIN)	Weight	
		net* /gross**	
TH-790100-US	4262483761656	1g (Netto)	23g (Brutto)
TH-790051-US	4262483761663	0.78g (Netto)	22g (Brutto)
TH-790032-US	4262483761670	0.5g (Netto)	21g (Brutto)

\*NET WEIGHT: Item weight minus packaging and accessories.

\*\*GROSS WEIGHT: Item weight incl. packaging and accessories.

### Product data

Packaging dimensions	16x14x1cm (units)	
PU dimensions	25x17x5cm	32x32x0.025mm
	100x100x0.025mm	51x68x0.025mm
Units per PU	25pcs	25pcs
PU Weight	575g	550g