



E-Mobility | Thermal Interface Materials

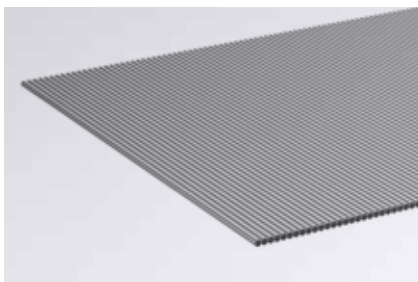
HEAT TRANSFER MAT FOR THERMAL BATTERY MANAGEMENT

Thermally **efficient and recyclable**

The design of modern battery systems with lithium ion cells presents complex challenges in terms of thermal management. The service life and performance of both the cells and the entire battery module are heavily influenced by the ambient temperature. Precise temperature control and efficient heat dissipation are therefore critical for ensuring optimum performance efficiency.

Heat is generated in the battery system during use when accelerating, recuperating, and also charging. Thermal interface materials (TIMs) are typically used for heat transfer from the cells to a cooled base plate. When used as TIMs, heat transfer mats from GKD guarantee an optimal thermal connection between the cells and other components, as well as ensuring even heat distribution by equalizing tolerances.

Benefits of using heat transfer mats:



- ◆ Easy to maintain
 - ◆ Easy to process
 - ◆ Recyclable
 - ◆ Reliable throughout the entire lifecycle
 - ◆ Budget-optimized
 - ◆ Customer-specific, scalable, and adaptable solutions
 - ◆ Single-source supplier from development to series production
- ◆ Heat conductivity from 1.5 to 3.0 W/mK
 - ◆ Can bridge gaps of 1 to 4 mm

Why GKD?

Highest quality

GKD is the global technology leader for state-of-the-art industrial weave and filtration solutions produced from metal or synthetic wires and technical fibers – for all industrial application areas. The highest standards are achieved through innovative weaving technology and production equipment. IATF and ISO certifications ensure that customers can rely on certified quality.

Available worldwide

With more than 900 employees around the world, GKD Group has an international presence. GKD produces materials in Germany, the United States, Chile, South Africa, India, and China. This broad-based network safeguards supply availability, even in times of uncertainty.

In small and large volumes

State-of-the-art looms on four continents guarantee scalable production capacity for even the largest quantities.

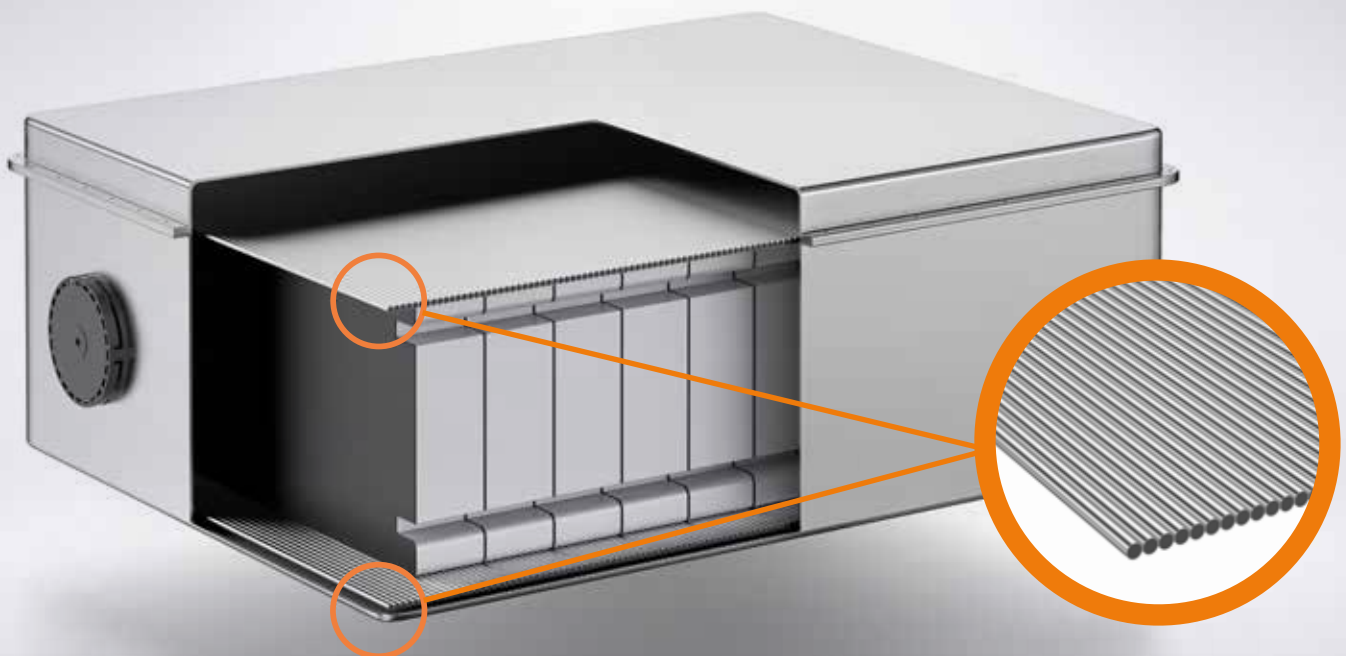
Responsibility and sustainability

GKD strives to make a key contribution to securing a healthier, cleaner, and safer world with its solutions.

Technological development in dialog with the automotive industry

Production and development for the automotive sector go hand in hand at GKD. Our specialists work closely with production on a cross-departmental basis and always stay up to date with the latest developments in the automotive market, so that we can fully meet our customers' requirements. A simulation environment

facilitates development of tailor-made products, supported by fast feasibility checks and prototype construction. High-tech looms and computer-aided quality assurance systems guarantee fault-free premium quality and seamless traceability.



Your local experts

We always have your individual requirements in mind. Our experts analyze performance demands on the material and the type of application, and also optimize processes and services.

Your contact person will be happy to provide you with information.



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