



E-Mobility | Protection

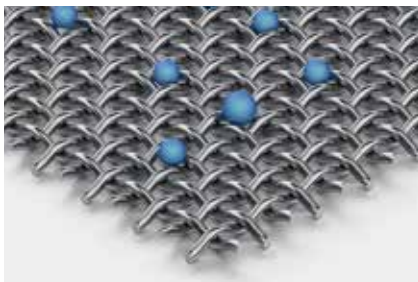
# HOT GAS FILTERS FOR BATTERY VENT VALVES

## Safety for electric vehicles

The battery is one of the most important components in both battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). Vent valves are absolutely indispensable to compensate for the pressure and temperature fluctuations in the sealed battery cell housing, which can potentially reach high levels. These valves ensure a stable environment for the battery and protect it from external influences. Should a thermal event occur in one of the battery cells, the valve opens quickly and allows the air to escape rapidly from the battery housing.

Hot gas filters from GKD prevent particles that are released during a thermal runaway from exiting the battery system. This massively reduces the risk of the escaping gases being ignited by metallic sparks. GKD's hot gas particle filters support compliance with the new legal requirements for OEMs with regard to BEVs and PHEVs.

## Benefits of GKD hot gas filters:



- ◆ Filtration rate for particles down to 0.50 mm
- ◆ High porosity < 50 %
- ◆ Customer-specific, scalable, and adaptable solutions
- ◆ Reliable throughout the entire lifecycle
- ◆ Resistant to thermal events in a defined time period
- ◆ Single-source supplier from development to series production

## 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.

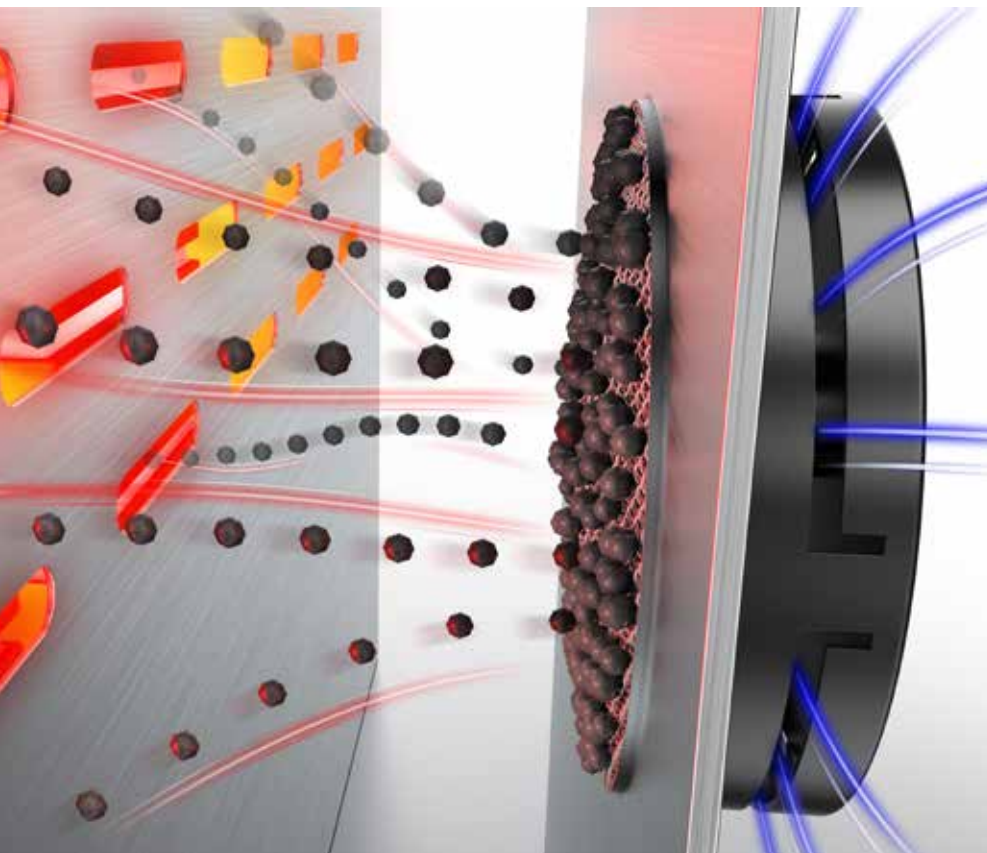
### Responsibility and sustainability

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 meshes, 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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