



*Gaskets. Technical parts.*

A large, semi-transparent red gasket with several circular holes is overlaid on the left side of the image, extending from the top left towards the bottom left.

HIGH-QUALITY SOLUTIONS FOR  
APPLICATIONS IN THE FIELDS OF  
**E-MOBILITY,  
BATTERIES AND  
FUEL CELLS**



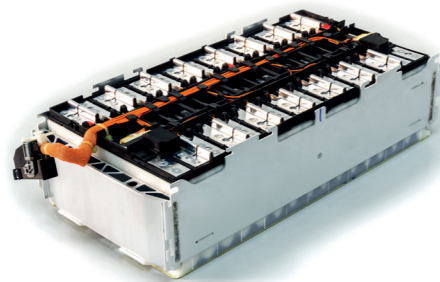
# HIGH-QUALITY SOLUTIONS FOR APPLICATIONS IN THE FIELDS OF E-MOBILITY, BATTERIES AND FUEL CELLS

**Intelligent and high quality** - SCHLÖSSER has the suitable solution for your application.

In significant strides drive technologies as well as the storage of energy are being further developed. SCHLÖSSER has many years of practical experience for technical parts in these areas. Both in stationary applications as well as in the automotive industry fuel cells are being used more and more. Battery technology is already established in both sectors.

For the transport of the energy, transforming the voltages and for converting electrical energy into kinetic energy, there are also ever higher demands are being placed on inverters, electric motors and the associated control units.

We manufacture your sensitive components for assemblies in stationary or mobile applications with our know-how according to the highest quality criteria.



## FOR BATTERY STORAGE AND E-MOBILITY:

- Compression pads
- Insulation foils
- Pressure equalization membranes
- Gap pads and conduction plates



## FOR FUEL CELLS E.G. PEMFC, DMFC:

- Gas diffusion layer
- Stack gaskets
- Bipolar plates
- Insulation foils



## FOR ELECTRIC MOTORS, INVERTERS AND ELECTRONIC CONTROL UNITS:

- Housing gaskets
- Insulation foils
- Pressure equalization membranes
- Gap Pads
- Damping and adhesive parts

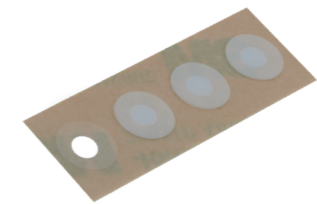


## BATTERY STORAGE & E-MOBILITY



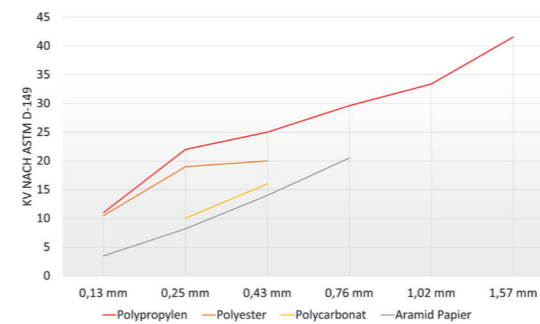
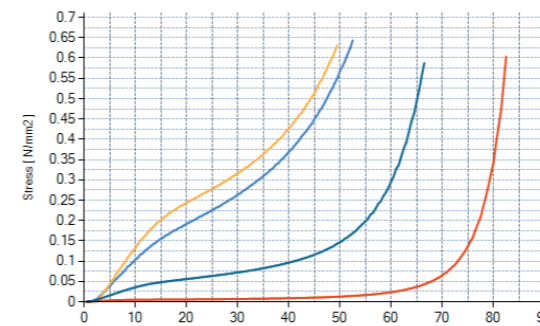
### Pressure equalization elements

Pressure-equalizing membranes for air exchange and moisture removal from housings with electrical components that generate waste heat. In battery applications with an additional bursting function to release short-term overpressure.



### Compression pads

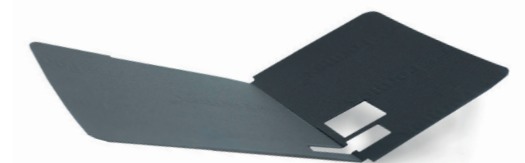
The pads made of PU- or silicone foams with very good resilience enable the compensation of tolerances between the pouch cells as well as the compensation of cell growth, the so-called „swelling“. The service life of the battery system can be significantly increased by the defined bracing of the cells with materials that show a stable compression set over the long term. At the same time, the compression pads protect against shocks and can reduce vibrations through the damping properties of the foams.



### Insulation foils

Electrical insulation to prevent electrical discharge and increasing the battery safety - also complying with UL requirements as a certified UL repackager.

Furthermore, SCHLÖSSER is able to manufacture the foils under consideration of technical cleanliness, e.g. to avoid the risk of electrical discharge due to metallic particles.







## TECHNICAL CLEANLINESS

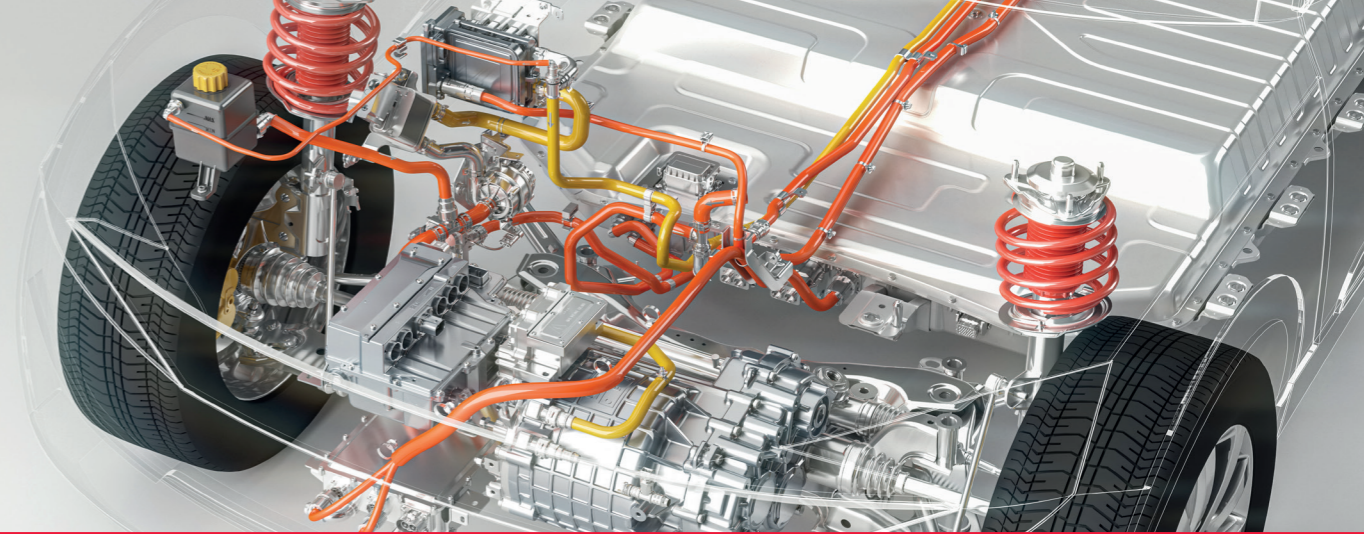
**QUALITY AND CLEANLINESS** – a consistent principle at SCHLÖSSER. Our customers can rely on the fact that their technical plastic parts not only meet the highest quality criteria, but are also packaged and labeled in a defined clean, washed or cleanroom-suitable manner upon request.

For projects requiring increased technical cleanliness, we are an experienced partner. Customers from the corresponding industries, e.g. in the field of micropumps, medical analytics or the electronics industry can fully rely on SCHLÖSSER.

We take into account the specific influencing factors of technical cleanliness such as material properties and its supply chain, part complexity, manufacturing processes and premises to meet your requirements.

Of course, this process affects the entire flow of goods: The process and logistics chains that we have implemented and continuously optimize at SCHLÖSSER are as clean as our products. Cleanliness test reports according to VDA 19.1 are carried out in a partner laboratory accredited according to DIN EN ISO / IEC 17025:2018. Accordingly, we also have equipped premises up to manufacturing and converting under clean room conditions according to ISO Class 8.





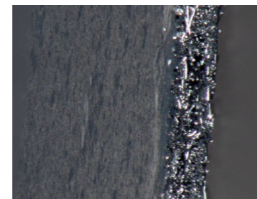
## FUEL CELLS

## E-MOTORS, INVERTERS, ELECTRONIC CONTROL UNITS AND POWER ELECTRONICS



### Gas Diffusion Layer (GDL)

In the processing of particularly high-quality and sensitive materials such as the carbon-coated nonwoven materials of the GDL, we have the necessary experience in stamping technology.

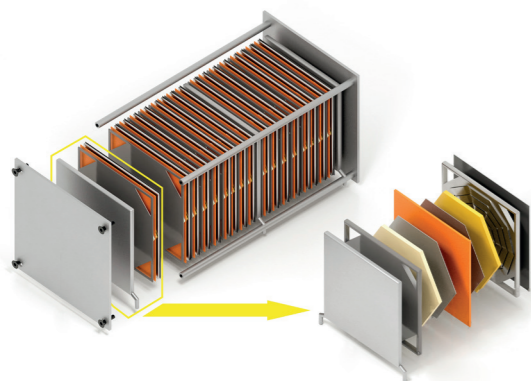
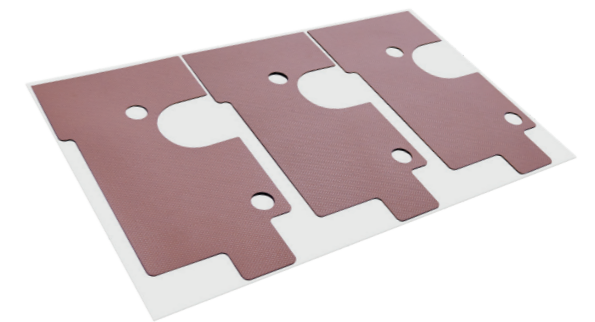


### Insulation

The insulation between printed circuit boards or busbars of larger devices and electronic equipment often consists of several components which have a certain distance to each other due to high voltage. If the distance between live parts falls short of the specified air gap, it can be increased by suitable measures. Typical is the use of an inherently stable insulation foil between the components.

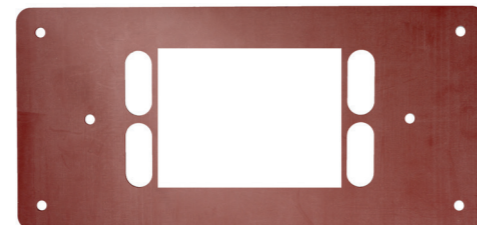
### Thermal Management

To dissipate heat from hot spots on heat sinks and housings, we offer you individually tailored gap pads, phase-change materials or thermally conductive adhesive tapes. These can be precisely positioned during assembly, are easy to handle - and can be produced by waterjet cutting or laser cutting, even for small quantities, without tools.



### Stack gaskets

We manufacture parts for sealing the bipolar plates from flat materials for small series by water jet cutting and for large series using knife cutting punching tools according to individual contours for you.



## WE ARE THERE FOR YOU!

With over 125 years of experience and our extensive portfolio of different materials, we will always find the right solution for you. In doing so, we rely on the highest quality. As a competent partner for projects with high technical requirements, you can fully rely on us.

In addition, as a UL-certified repackager, we guarantee the complete traceability of all input materials in the value chain from the raw material manufacturer to the finished end product.

WE LOOK FORWARD TO YOUR INQUIRY AND ARE PLEASED TO ADVISE YOU!

## NUMBERS, DATA & FACTS:

1897

founding year

350

employees

15.000

active parts

2

production facilities

5 MILL.

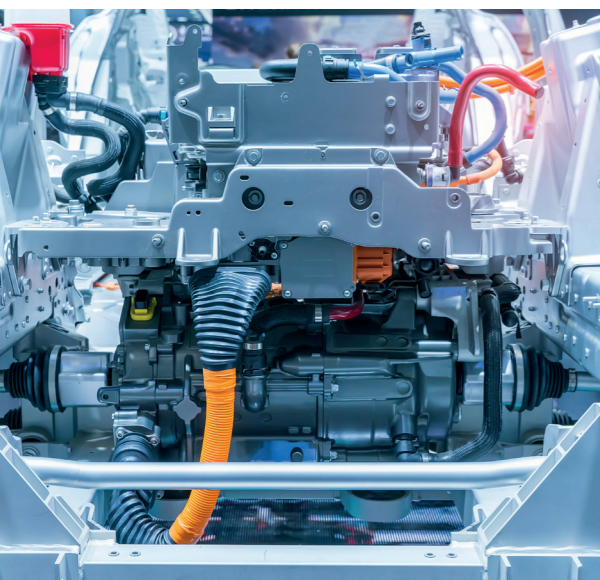
parts per working day

2.000

different materials

1.200

customers around the world





## OUR PRODUCT DEVELOPMENT

### WE MANUFACTURE YOUR TECHNICAL PLASTIC PART



#### TECHNICAL CONSULTING

Our technical consulting service is at your disposal to work out a solution with many years of experience in materials, production technology and applications. The focus is on the optimal and economical implementation of your customer requirements.



#### PROTOTYPES

With our tool-free manufacturing technologies of laser cutting and water jet cutting, we can provide you with initial prototypes for test series, preliminary samples and pilot series within a short time. Changes due to the advancing state of development are no problem and can be implemented quickly.



#### TOOLING AND CUTTING PROGRAMS

One of our core competencies is the manufacture of high-quality tools, for which we draw on our wealth of experience from over 70 years as well as the latest technological developments. The tools - individually adapted to each customer's product in terms of material, tolerances and form of delivery - enable long tool life thanks to mechanical and reproducible resharpening, and products made from them are manufactured with the highest precision.



#### SERIES PRODUCTION WITH INITIAL SAMPLING

Series production at SCHLÖSSER is carried out on the most economical production technology, taking into account the required quantities and technical requirements - whereby we can select from a large number of different processes for the production of your articles. Production is carried out after customer approval within the scope of sampling, for example as EMPB or in accordance with VDA Volume 2 or PPAP -Standard.



#### LOGISTICS

Depending on your wishes and requirements, we offer a wide variety of delivery forms to suit your assembly process. Parts can be separated, bundled, stacked, secured with stacking pins, on a backing liner for adhesive and non-adhesive parts, in blister packs, KLTs, on reels or otherwise assembled and delivered.

#### SCHLÖSSER GMBH & CO. KG

Gaskets. Technical parts.

Tel. +49 7572 606-0

Fax +49 7572 606-5598

#### Plant I

Wilhelmstraße 8

88512 Mengen

Deutschland

#### Plant II

Carl-Schlösser-Straße 1

88512 Mengen

Deutschland

[info@schloess.de](mailto:info@schloess.de)

[schloesser-dichtungen.de](http://schloesser-dichtungen.de)