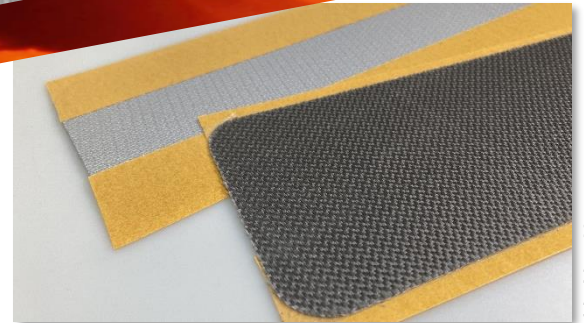
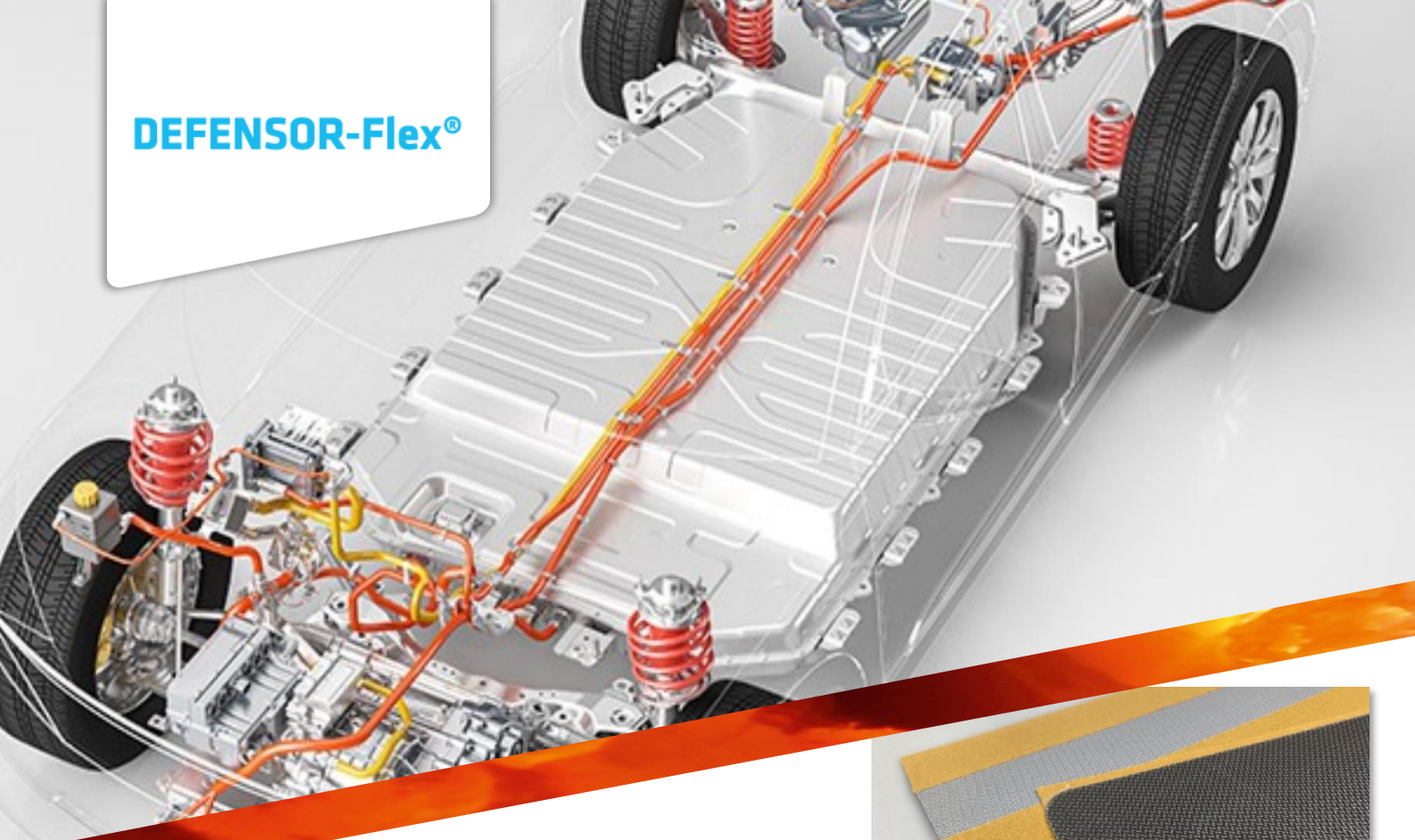




DEFENSOR-Flex®



DEFENSOR-Flex® VS01

VS01 774 OE.....-35

IMDS available on request

The DEFENSOR-Flex® VS01 [Venting Shield] consists of a customer-oriented tailor-made combination of high-tech finishings on fabrics. It protects adjacent cells against particles and gas emerging during the venting of a battery cell. It functions as a seal with a predetermined breaking point.

According to WHO guidelines, the fibres used are considered harmless to health as they are not respirable with a diameter of $\geq 6 \mu\text{m}$.

DEFENSOR-Flex® VS01 can be delivered in rolls or customized as make-to-order-product, designed to functional requirements. It is also available with partial pressure sensitive adhesive as mounting aid.

Application of DEFENSOR-Flex® VS01:

- Seal between battery cell and rupture disc
- Predetermined breaking point to protect against particles and gas emerging during the venting of a battery cell.
- DEFENSOR-Flex® VS01 offers a high technical cleanliness and at the same time a high dielectric strength $>1\text{kV}$ due to special coatings.
- A particular feature is the shutter thickness of $<0.5\text{mm}$ and at the same time high temperature resistance.
- Protection of neighboring cells from venting gases



SAINT-GOBAIN

DEFENSOR-Flex® VS01

DEFENSOR-Flex®

VS01 774 OE.....-35

functional layers	one
width [mm]	max 1.000
construction	unbalanced
THERMO-E-Glass fabric with functional two-step finish	E-Glass
operating temperature [°C]	-40 to 500
total area weight [g/sqm]	450
thickness [mm]	0,40

Tensile strength	
warp / weft [N/5cm]	ISO 4606 >3.000/>2.000

REACH / RoHS compliant

Thermal conductivity acc. DIN EN 1094						
t in °C	50	100	200	300	400	500
λ W/(m*K)	0,071	0,076	0,087	0,097	0,106	0,116

Figure 1 - functional scheme

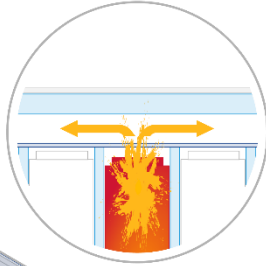
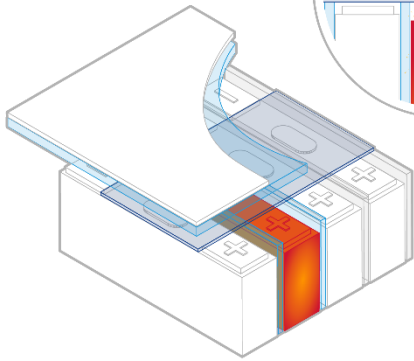


Figure 2 - Side facing the rupture disk

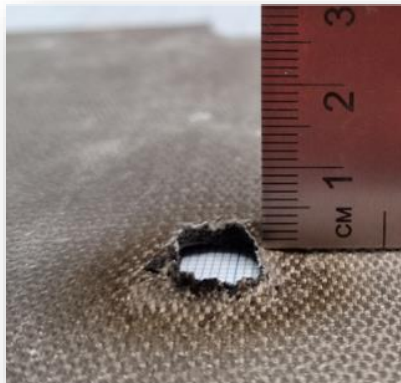
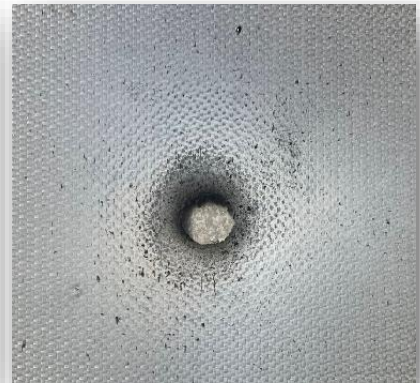


Figure 3 - Side facing the cell



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H.K.O. Isolier- und Textiltechnik GmbH

Zum Eisenhammer 54 • 46049 Oberhausen • Germany

Phone: +49 208 85994 0 • Fax: +49 208 85994 70

E-Mail: hko@saint-gobain.com • www.hko.de

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