

Fire blanket, superior protection.

Use:

Fire blankets are designed to spatially and temporarily limit the spread of fire or the fire process itself of electric vehicles or their traction battery, preventing the spread of flames, smoke and toxic gases.

The Fire Blanket is an essential solution for emergency and safety response teams and can be deployed in numerous environments:

- Car parks: easily accessible in high-density vehicle areas, such as multi-storey car parks and shopping centers.
- Garages: vital for locations where vehicles are at risk of self-ignition post-accident, especially for EVs.
- Breakdown & Recovery Trucks: essential for recovery vehicles to ensure safety during transport of damaged cars.
- Ferries: critical for car ferries to rapidly contain potential fires that threaten vehicle safety and passenger lives.
- Airports: necessary in high-traffic vehicle areas including parking lots, terminal buildings, and hangars.
- Petrol & charging stations: offers immediate fire containment for both EVs and combustion vehicles, crucial in preventing the spread of fire.
- Car Repair Shops: important for protecting against fire risks during vehicle maintenance and repair.

Features:

- For small to large battery powers.
- Allowable temperatures: up to 1000°C according to the 2- hours test as per DIN SPEC 91489:2024-11; 1300°C (short time).

High temperature resistance due to the special blanket construction and its material: high-grade fibre glass fabric with fire retardant polymer coating (silicon rubber) on both sides.

- Multiple use as per the indications mentioned within the Instructions for Use. Repeated test at 1000°C DIN SPEC 91489:2024-11.

Before re-using the blanket, it must be rinsed. This supports sustainable firefighting practices.

- Easy deployment: features colored loops for quick identification and deployment, facilitating efficient emergency response.
- Size adaptability: suitable for all battery and vehicle sizes.
- Surrounding protection: effectively protects adjacent areas from collateral damage during a fire event.
- Fire classification A2-s1, d0 according to EN 13501-1:2018
- Increased cut protection according to EN ISO 13997:2023
- Limits the risk of electric shock in case of unintentional use on live electrical equipment. Blanket material tested according to EN 1869 §5.4 with an increased test current to 1500 V DC (instead of the normative value of 500 V DC): the insulation electrical resistance of the blanket material is greater than 1 MΩ at any point.
- Conforms REACH and RoHS regulatory requirements.





Sicame Group

- Free of PFAS.

Standard description:

DIN SPEC 91489:2024-11 (Requirements for fire limitation blankets for use with electric vehicles)

This standard is the first standard defining the requirements relating to fire blankets for use with electric vehicles. The main following performances are clarified:

- Thermal resistance
- Mechanical stability
- Chemical resistance
- Information provided by the manufacturer
- Handling after use in a fire

EN 13501-1:2018 (Fire classification of construction products and building elements. Part 1:

Classification using data from reaction to fire tests)

EN ISO 13997:2023 (Protective clothing — Mechanical properties — Determination of resistance

to cutting by sharp objects)

EN 1869:2019 (Fire blankets)

Standards

DIN SPEC 91489:2024
(material) EN
13501-1:2018 EN ISO
13997:2023 REACH,
RoHS, PFAS-free
Blanket material tested
according to EN 1869
§5.4 with an increased
test current to 1500 V DC
(instead of the normative
value of 500 V DC)

Ref.	Use EN	Dimensions [mm]	Width [mm]	Weight [kg]	Length [mm]
FB-025P20	e-bikes & e-scooters	2500 x 2000 x 10	2000	3.7	2500

