TESTED BY SGS | DIN SPEC 91489

Hi-PROTEC

EV Fire Blanket

Premium Silica Series

Save All You Love, Protect Your Life

State-of-the-art electric vehicle fire limitation blanket engineered to withstand heat up to 1,100°C and contain the fire, limiting its spread, smoke and heat.



1,100°C	6 × 8 m	≥ 96%	20 yrs
Max service temperature	Full EV coverage	Pure silica fiber	Standby shelf life

Why Hi-PROTEC?

THE RISK

EV lithium-ion battery fires (thermal runaway) generate intense, self-sustaining heat that standard water extinguishers struggle to suppress instantly. Unchecked, they pose severe risks to surrounding vehicles and building structures.

THE SOLUTION

Hi-PROTEC is your first line of defense. By containing the fire, it limits flame spread, reduces smoke and confines the heat — safeguarding assets and buying critical time for professional firefighters.

Advanced Material Technology

Crafted from pure silica fiber (>96%) coated on both sides with high-temperature liquid silicone. Rated for higher temperatures than conventional fiberglass blankets.

Technical Specifications

Tested by SGS (Test Report No. SDFTS25000559R01_EN) against the standards below.

PARAMETER	PERFORMANCE
EV-Specific Standard	Meets DIN SPEC 91489:2024-11 requirements for EV fire limitation blankets (SGS test).
Material & Heat Resistance	Pure silica fiber ≥ 96% with dual-side liquid silicone coating. Max service temperature up to 1,100°C.
Fire Behavior Class	Class B-s1, d0 (EN 13501-1) — low ignitability, low smoke production and zero flaming droplets.
Tear & Cut Resistance	Level A performance rating under the EN ISO 13997 cut resistance standard.
Dimensions & Weight	Standard size 6 × 8 m (net weight 28 kg), sized to fully cover an EV.
Environmental Safety	PFAS-free — no hazardous fluorinated chemicals are released.
Shelf Life	Up to 20 years of standby storage life when maintained properly.

Industrial Packaging – IP65 Protection

Keeps the blanket pristine and deployment-ready in any environment, inside a high-visibility yellow storage container.

IPX5

Protected against water jets projected from all directions.

IP6X

100% dust-tight ingress protection.

Rapid Deploy

Four reinforced corner loop straps (FMVSS 302 compliant) with high-contrast red pull handles for instant identification.

Essential Protection for High-Risk Environments

Elevate facility safety compliance and build lasting trust with occupants and visitors through professional emergency mitigation equipment.

Condominiums & Commercial Buildings

Shield underground and indoor parking from intense radiant heat and keep toxic smoke out of ventilation shafts.

EV Charging Stations

Help contain battery fires at an early stage, protecting charging infrastructure and adjacent vehicles.

Malls & Hotels

Mitigate panic, minimize property loss, and preserve your property's safety reputation and compliance standing.

EV Showrooms & Service Centers

Essential safety gear for maintenance bays and high-voltage battery storage zones to safeguard technical staff.

20 Years of Centrotec
Your Reliable Partner
in Every Step.

Centrotec Co., Ltd.

Selected Insulation, for your Sustainable Productivity

Drawing on two decades of excellence in industrial thermal and cryogenic insulation systems engineering, we deeply understand thermal behavior. Hi-PROTEC products are rigorously vetted under strict engineering standards to deliver reliable crisis-response solutions you can trust.

Request a Quotation or Book a Demonstration

Hi-PROTEC — Save All You Love, Protect Your Life

Direct inquiries from facility owners, developers and fleet operators are welcome.

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