Product Information

EV Car Fire Blanket - SKU: CFB2186

Designed to contain Electric and Hybrid Vehicle fires, the EV Car Fire Blanket has been developed after many months of research and development.

The most common form of fire in electric or hybrid vehicles is when the high energy battery is damaged, or a manufacturing fault results in a short circuit. The battery can then go into "Thermal Runaway", this is a phenomenon where damaged cells heat up rapidly to such an extent that a fire starts. The fire then compromises adjoining cells and a "domino effect" occurs spreading to the whole battery array.

Thermal Runaway fires cannot be extinguished by conventional means!

The electrolyte in a Lithium-Ion battery usually contains hydrocarbon solvents which fuels the fire. If unchecked extremely high temperatures exceeding 1,200°C+ can result.

Utilising an EV Car Fire Blanket minimises the combustion potential by depriving the fire of Oxygen. This inhibits the fire and consequently temperatures drop rapidly, reducing potential damage to surrounding vehicles and property.

The EV Car Fire Blanket can be deployed easily by two people and is supplied in a convenient storage holdall for protection and ease of transport.

Physical Data:

Size:	8 x 6 metres (48 M^2)
Weight:	25 Kg
Application:	ICO, Electric & Hybrid Vehicles up to SUV size
Storage:	Waterproof holdall bag with carrying handles

Technical Data:

Material:	Silica Quartz Fabric treated with Fire Retardant Coating			
Property	**Description**	**Value**	**Tolerance**	**Test Standard**
Fabric Weight	–	520gsm	± 10%	EN 12127
Tensile Strength (typical)	Warp Weft	4800 N/5cm 3700 N/5cm	± 5% ± 5%	ISO 4606
Electrical Burner Test	–	M0	–	EN 13501
Fabric Melting Point	–	>800°C	–	
Reaction to Fire*	–	B-s1, d0	–	EN 13501-1:2007 + A1:2009
Material Fire Test**	–	Class 0	–	BS 476, Part 6+7
Fire Resistance***	Intertek Test	Up to 1,000°C	–	Non-Available
Hydrocarbon Resistance	–	Rating Number: 7	–	BS EN ISO 14419: 2010
Hydrostatic Pressure Test	Waterproof	492cm/H_2O (Mbar)	–	BS EN 20811: 1992 / ISO 811

***Reaction to Fire**: *Based on information assimilated from the fabric manufacturers technical database, definitive ISO testing is currently in progress (as at 03/12/2021).*
****Material Fire Test**: *Based on information assimilated from the fabric manufacturers technical database, definitive ISO testing is currently in progress (as at 03/12/2021).*
*****Fire Resistance Testing**: *Samples were submitted to Intertek® and furnace testing to 800°C was conducted. The material, whilst compromised, retained is structure and was deemed effective for the intended purpose.*

NOTE: Whilst EV fires can reach core temperatures exceeding 1,300°C, the surface temperature of the vehicle body will be much lower than this. Once deployed the EV Car Fire Blanket reduces temperature rapidly by depriving the fire of Oxygen. This allows the EV Car Fire Blanket to perform effectively within its fire resistance ratings.