

CERTIFICATE OF TECHNICAL PERFORMANCE

FIRE CLOAK™ – Electric Vehicle Fire Blanket



Dimensions: 8 x 6 metres ≤ 5% | **Weight:** 28Kg. ≤ 5% (includes storage bag | **SKU:** CFB 2186B

Material Description: Specially modified single layer glass fibre fabric (**FBM8060**) with fire resistant silicone coating to both sides. 4 x heavy-duty, fire-resistant pull handles to corners with triple layer reinforced mounting points. Leading edge handles are red, all others black. All seams and handles stitched with high temperature resistant thread.

Base Material Specification

Product Codes: **FBM1290**

	Units	Value	Tolerance
Weight	g/m ²	420 +100	≤5%
Silicone Coating	g/m ²	50 (each side)	≤10%
Tensile Strength			
Warp	N/5cm	9,970	≤2%
Weft	N/5cm	5,690	≤2%
Tear Strength	N	>128	≤2%
Burst Strength	kPa	>1000	≤4%
Cut Resistance		LEVEL D	

Fire Resistance Testing – Results

BS 476: Part 7: 1997: Surface Spread of Flame | **COMPLIANT**

BS 476: Part 6: 1989 + A1: 2009 Fire Propagation Index | **COMPLIANT**

Based on the above test results the product is deemed as meeting a **CLASS 0 RATING** for fire resistance. This is similar to the CLASS A fire resistance rating in the USA. Refer to Warrington Fire Document Reference: 534679 & 534680

BS 476-20/22 1987 (similar to USA standard ASTM E119): Indicative Furnace Test – Resisted 1,000°C (1,832°F) for 90 minutes, at which point the test was stopped.

D6413 / D6413M-22: USA standard for Vertical Flame Resistance | **PASSED** with Best Possible Result.

NFPA 701: USA standard for Flame Propagation of Textiles | **PASSED** and NFPA certified.

ISO EN 13501-1 2018: European Standard for Fire Classification of Products | Rating: **A2, s1, d0**

DIN SPEC 91489:2024-11 German specification standard for Electric Vehicle fire limitation blankets | **CERTIFIED**

Additional Tests by Intertek Testing Services (UK) Ltd

		Average results
BS EN ISO 14419:2010	Oil / Hydrocarbon Resistance	7
BS EN ISO 9237:1995	Air Permeability @ 20°C	0.22 mm/s
BS EN ISO 9237:1995	Air Permeability @ 400°C	0.63 mm/s
BS EN ISO 13934-1:2013	Tensile Properties 1 Hr @ 400°C	Warp ~ 1156.6 N Weft ~ 1012.5 N
BS EN 20811:1992/ISO 811:1981	Hydrostatic Pressure Test - cm/H2O (Mbar)	492

Live testing at Horiba MIRA (Motor Industry Research Association, Nuneaton, UK)

The Fire Cloak™ EV Fire Blanket was deployed over a burning Nissan Leaf that was in an advanced stage of Thermal Runaway. The fire temperature dropped rapidly from over 900°C to 47°C in under 10 minutes.

I declare that the above information is a true and accurate reproduction of test results.

Andrew Coulton | Managing Director

