



## FireFabric Battery Pouch.

### General information.

The FireFabric Battery Pouch or FBP is made of E-glass textile with metal invorcement. The result is a very strong light weight cloth material with temperture resistance up to 1.000 C for 120 minutes. Unique is the coating wich not only resists these high tempertures, but also long term intensive use. It's extreme hardwearing capabilities give the FBP a long life cicle.

### Cloth data:

Thermo E-glass fabric FF550/ST

1) Weave	Din 61-101-1	Plain
2) Thickness	Din EN Iso 5084	0,55
3) Weigth	Din EN Iso 12127	530 gr.m2
4) Nr.threads	Din EN 1049-2	15/10
5) Yarn.ct.W/W	Din EN Iso 2060	68x2+1V4A
6) Filament diam.	Din 53 811	9 / 9
7) Tensile strenght	Iso 4606	1500 / 2500 N/5cm

### Yarn data:

Kevlar yarn metal reinforced

Material	Twaron/steel	Twaron 38% Steel 62% (stainless steel AISI 316 L)
Tex count		2100 DTex 4,7 Nm
Elongation		4,2%
Tensile strength		81 Newton
Twist		Z350
Temperature		300 C Kevlar 600 C metal wire

### Scour test on cloth and coating:

Tested in Martindale

Material lost after 100.000 rPM	0,0037 g.
Standardization	Din EN Iso 12947-2:2007-04
Martendale load	3kPA (=195 g/aberrant from norm)

### Tested:

On cloth level, yarn level and coating.

Real time tested with Lithium-Ion batteries.

IDEEON March 2015

