

FireMaster Battery Bag



Product Description

PED containment bag for emergency storage of defect Li Ion batteries of e.g. smartphones, tablets, notebooks and other personal electronic devices to avoid expansion of fire in case of thermal runaway of Li Ion batteries.

Dimension: approx. 500 x 500 mm, 4-layers
Locking: 2 hook-and-loop-tape fasteners; 500 mm width, stitched trough all layers for better mechanical strength

Components of FireMaster Battery Bag

Inner layer: Cloth Type DV12GWVV

SiO₂: min. 95 %, thickness 2 mm
Surface coating: preshrunk for less shrinkage on temperature exposure, Vermiculite coated for enhanced mechanical strength
Thermal stability: approx. 1000°C
Melting point: 1700°C, nonflammable A2 acc. DIN 410 2
Flammability: non-flammable A2 acc. DIN 4102

Intermediate layer: FireMaster Marine Plus Blanket, 128 kg/m³, 6 mm thickness

Chem. comp.: SiO₂: 64 – 66%; CaO: 27 – 31%;
MgO: 4 – 7%; other < 1%

Classification T: 1200°C
Therm. cond.: 128 kg/m³ @ 1000°C: 0,25 W/mK
Tensile strength: 75 kPa
Flammability: non-flammable A1 acc. to DIN 4102

Aluminium foil:

Pure-Al-Foil: Al 99,5 smooth, vapour resistant
Temperature resistance.: up to approx. 600°C
Flammability.: A1 nach DIN 4102
Tensile strength: 45 – 95 MPa

Outer Layer:

Delvotherm 500 E-Glas cloth, silicone coated

Thickness: 0,5 mm
Coating: 80 g/m²
Temp. resistance: 400°C long therm 500°C short therm
Flammability: Glass cloth non-flammable acc. to DIN 66083 und DIN 4102 B2

Hook-and-loop-tape fastener

Composition: 100% Polyamide
Width: 50 mm
Weight: 20 g/m
Tensile strength: hook tape: 399 N/cm
Loop tape: 352 N/cm
Temp. resist.: hook tape: 220°C
Loop Tape: 180°C

Yarn

High temperature yarn with stainless core (AISI 316 L) and Kevlar-wounding
Stainless core is stable up 1100 °C without load and up to 650°C under load
Texnumber: 2000 dtex
Yarn strength: 5/1 N/m
Tensile strength: approx. 8100 cN
Distension: 4 %
Recommended needle size: 130 Nm
Application: for high temperature application, like heat protection clothing and welding equipment