

# Rapid Fire and Smoke Suppression When You Need It Most.



**LIBIK**<sup>®</sup>  
Lithium Ion Battery Incident Kit

# New Innovations in Li-ion Battery Fire and Smoke Suppression



## PED-Pad Fire Suppression Pillow

Designed to be an easy and fast method of extinguishing a lithium-ion battery fire, while protecting the fire-fighter.

- Contains **CellBlockEX**, an incredible mineral-based extinguishing agent used for fire fighting lithium-ion battery and device fires, as well as combustible liquids and metal fires.
- CellBlockEX is entirely environmentally-friendly and health-friendly.
- CellBlockEX has been proven to halt propagation in a thermal runaway. Test results available.
- The outer pillow consists of a fabric that quickly disintegrates when exposed to heat without contributing to the fire, which allows for rapid deployment of the CellBlockEX loose-fill.

Choose one of our standard size PED-Pads listed on the back of this brochure or customize to your application.

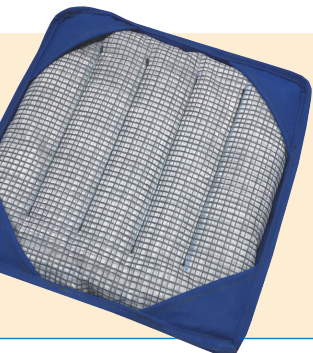
## Fire Shield Blanket

Provides an impervious barrier between the fire fighter and the burning device and increases the suppressive effect of the PED-Pad pillow. The Fire Shield is constructed from incredibly robust fire resistant fabrics that have undergone rigorous testing by FAA approved labs:

- 14 CFR, Part 25 D §25.853  
12 Second Vertical Burn Test  
60 Second Vertical Burn Test
- 14 CFR, Part 25 D §25.855  
5 Minute Cargo Liner Burn Test
- Experimental 30 Minute Cargo Liner Burn Test

Choose the standard 30"x30" fire shield with corner handles or customize to your application:

- Available in multiple sizes
- Add grommets for hanging
- Additional insulative layers available



## ← PED-Pad Covers

A useful accessory for your PED-Pad pillow. This reusable fire-resistant cover aids in keeping the CellBlockEX granulate localized and contributes to the suppressive effect.



## Aligns with Safety Recommendations.

CellBlock has worked with numerous international agencies, test labs, and consultants. The result of these collaborations is the safest, fastest means of dealing with the fire and smoke from a battery fire AND protecting the fire fighter.

# Instructions for PED-Pad and Fire Shield Blanket Use



## The Basics

Be sure that your PED-Pad pillow is appropriately sized for the device(s) that you typically work with. There should be sufficient pillow to overhang the device or battery by approximately 2 inches (5 cm). This recommendation assumes the work area is a flat surface.

## Storage

Store your PED-Pad pillow in a convenient area near or on your work space. Your Fire Shield Blanket should also be conveniently located.

The thin outer fabric of the PED-Pad pillow is designed for rapid disintegration when exposed to high heat. Therefore, care should be taken to protect exposed areas of the pillow from excessive abrasion.

## PED-Pad Pillow Use

In the event that a device you are working on begins to out-gas or is experiencing thermal runaway, place the pillow over the device. If your pillow is equipped with a cover, the blue fabric cover should be facing up.

Allow the pillow to remain in place until the thermal runaway has been extinguished and is completely cooled.

## LIBIK Fire Shield Blanket Use

The LIBIK Fire Shield Blanket may be used as follows:

Use as a personal shield when approaching a device that is out-gassing or has gone into thermal runaway. The handles at each corner allow you to keep your hands on the back side of the blanket.

Once a PED-Pad has been placed over a device or battery, the blanket may be placed over the pillow with the blue fabric facing up. This increases the suppressive effect of the PED-Pad and further protects the fire fighter and work environment.

## Safety

The aforementioned procedures should be considered recommendations and are provided as guidance only. It is the responsibility of the individual to perform a risk assessment and author their own safety procedures and protocols.


Lithium-ion batteries will typically out-gas before igniting. Provided that heat is also present, the PED-Pad pillows will uptake most of the smoke and fumes. However, your management plan should include procedures for ventilation or evacuation of the area until the emergency has been resolved.


## After Use


The CellBlockEX loose-fill material may be cleaned up with a vacuum for disposal and the used PED-Pad pillow may be discarded.


Examine the PED-Pad cover and Fire Shield Blanket for wear. If the fabric shows any signs of weakening, replace.

Gently fit the PED-Pad cover over a new PED-Pad pillow, carefully working each corner in.

 **Tested Extensively In-house and by Third-party Laboratories.**

 **Non-hazardous Environmentally Friendly Product.**

 **Blanket and PED-Pad Cover are Reusable.**

 **No Measurable Shelf-life on Fabrics or CellBlockEX Loose-fill**



## PED-Pad Pillows and Covers

### PILLOWS

**Small Square Pillow** PART NO. PDPD1212  
30.5 cm x 30.5 cm x 5 cm (12"x12"x2") Pillow Only

**Large Square Pillow** PART NO. PDPD1616  
40.5 cm x 40.5 cm x 5 cm (16"x16"x2") Pillow Only

**Rectangular Pillow** PART NO. PDPD1115  
28 cm x 38 cm x 5 cm (11"x15"x2") Pillow Only

### COVERS

**Small Cover** PART NO. PDCV1212  
To fit 12"x12" pillow

**Large Cover** PART NO. PDCV1616  
To fit 16"x16" pillow

Custom sizes available. Please enquire.



## Fire Shield Blanket

**BLANKET** PART NO. LBKFB3030  
With handles. 76 cm x 76 cm, .5 kg (30"x30", 1.1 lb.)

Fire Shield Blankets are available in custom sizes, thicknesses and configurations. They may be manufactured with handles, grommets, Velcro, or other custom options to suit your application. Please enquire.



## EDE (Electronic Device Extinguisher) Kits

Keep your fire-fighting supplies at the ready. These convenient **EDE Kits** supply the tools you need to suppress a battery fire. In addition to PED-Pad pillows and Fire Shield Blankets, they contain personal safety gear to augment your protocol.

**Deluxe EDE Kit** PART NO. EDELBK08  
(Pictured at left) **Includes:** Storage/cleanup bag, 2 LIBIK Fire Shield Blankets, 2 PED-Pad fire suppression pillows, 2 pair CellBlock high-heat gloves, 2 3M smoke masks, 2 pair safety goggles, 1 small prybar (optional). Strategically placed dee-rings allow the placement of tamper-evident security tags.

**EDE Full Kit** PART NO. EDEMCM11  
**Includes:** 1 PED-Pads, 1 LIBIK Fire Shield Blankets, 1 pair CellBlock high-heat gloves, 1 pair of goggles, 1 3M smoke mask. Vacuum sealed in foil pouch.

**EDE Mini Kit** PART NO. EDEMCM10  
**Includes:** 1 PED-Pads, 1 LIBIK Fire Shield Blankets, 1 pair CellBlock high-heat gloves. Vacuum sealed in foil pouch.

Custom fabric colors and embroidery is available on LIBIK products. Please enquire.

