

# Specification of Fire Resistant Bag for Lithium-ion Battery

## **FIRE RESISTANT BAG**

There have been numerous incidents of fires caused by lithium-ion batteries. When these batteries are short-circuited, they rapidly generate high temperatures, leading to spontaneous ignition and potentially causing fires. Even a small battery can result in a catastrophic disaster.

The Fire Resistant Bag offers a solution to mitigate the risk of fire and smoke. This bag is specifically designed for storing batteries, providing isolation in the event of a battery fire. By containing the fire source within the bag, it helps prevent the spread of fire.

The Fire Resistant Bag is an innovative product that safeguards potentially flammable items from the dangers of fire. Its outstanding insulation properties are achieved through a unique combination of technical textiles, which effectively inhibit the propagation of both internal and external fires.

Additionally, the Fire Resistant Bag offers a safe and convenient solution for transporting and storing potentially combustible products, including batteries, fireworks, and other flammable chemicals.

## TECHNICAL PARAMETER

Item		Specification
Material	Outer layer	Fiberglass with single side silicone coated; or Fire resistant PVC coated mesh fabric.
	Inner layer	Fiberglass with single side silicone coated (approx. 0.4mm thickness)
	Velcro	Fire resistant nylon
	Edge strip	Fire resistant polyester
	Hand Strap	Strengthen polypropylene fiber
	Sewing thread	Kevlar sewing thread (fire resistant)
Working Temperature		Around 550°C
Size		20 x 20 x 32 cm, 49 x 12.5 x 18 cm, 22.5 x 15 x 18 cm, or as requirement
Color		Black, Gray, or as requirement

## KEY FEATURES

- **Fire-resistant material**

The Fire Resistant Bag is made from fire-resistant materials, which effectively isolate air and improve safety during charging. It can withstand temperatures up to 550°C, providing excellent heat insulation & corrosion resistance.

- **Safeguarding Lithium-ion Battery**

The Fire Resistant Bag for Lithium-ion Batteries offers a convenient way to protect your batteries during charging, transit, and storage. By enclosing the Lithium-ion battery in the bag, you can have peace of mind even if you need to leave it unattended for a while. The bag is designed to minimize the risk of damage in case of

a Lithium-ion fire.

- **Firefighter-Inspired design**

The bag features a unique design with reflective strips, making it easy to locate in the dark. This design element enhances visibility and ensures quick identification of the bag during emergencies.

- **Large capacity**

The Fire Resistant Bag has a spacious interior, providing ample room to protect your E-bike batteries, camera batteries, toy batteries, drone batteries, dry batteries, and various types of lithium-ion batteries.

## HOW TO USE THE FIRE RESISTANT BAG

1. Place the battery inside the fire-resistant bag. Ensure that the bag is large enough to accommodate your battery.
2. The charging cable runs out through the gap between the top of the bag and the cover.
3. Securely close the bag and fasten the Velcro.

### In case of Li-ion battery fire:

1. Cut off the power supply. Leave the battery in the fire resistant bag.
2. Move well away from the area to a safe location. Take necessary precautions to avoid inhaling these fumes.
3. Calling Emergency Services
4. Contact the relevant authorities for proper removal and disposal of the affected device, following their instructions and guidelines

### WARNING

1. Never leave a charging battery unattended.
2. Always place the battery on a non-flammable surface while charging.

3. Only have the charging battery inside the bag and ensure that the fire-resistant bag is properly sealed during the charging process.
4. The fire-resistant bag is designed to minimize the risk of damage in the event of a Lithium-ion battery fire. However, it does not have the ability to extinguish a lithium-ion fire.

## **STORAGE & MAINTENANCE**

### **Storage**

To maximize the service life of the fireproof bag, it is recommended to store it in a cool, dry, and well-ventilated place.

### **Maintenance**

Before and after each use, carefully inspect the fire resistant bag for any signs of abrasion or damage. If any damage is found, do not use the bag and replace it with a new one to ensure its effectiveness and safety.