



SILICONE COATED LITHIUM BATTERY FIRE SAFETY BLANKET 3 X 4M

MODEL NO: **EV500S**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



1. SAFETY

- 1.1. **PERSONAL SAFETY**
- 1.2. Wear fire-resistant clothing, gloves, etc. to avoid injury when using the fire blanket. These instructions are provided as a guide only. Always refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data. Inspect the fire blanket for damage before use. **IMPORTANT:** Once in position, the blanket should not be removed until emergency services have assessed the situation.
NOTE: In electric vehicles, even without oxygen the lithium battery will continue burning. We therefore recommend that a fire blanket be kept on the tow truck when transporting electric vehicles.
- 1.3. **QUICK RESPONSE**
EV fire blankets are designed to be quickly deployed in the event of a fire, allowing for rapid containment and extinguishing of the fire.
- 1.4. **NON-TOXIC & NON-HAZARDOUS**
EV fire blankets do not release toxic fumes or hazardous substances into the air, making them a safer option for people and the environment.
- 1.5. **EXTENSIVE APPLICATION** - Smaller size makes it suitable for mobile phones, laptops, e-bikes and medium sized EV batteries like the Tesla model 3 and VW ID.4 battery.
- 1.6. **REUSABLE**
Please note the EV500S is for single-use only. The EV1000 can be reused up to 5 times if the blanket has been closely inspected and fabric is not compromised.

2. INTRODUCTION

Designed to be able to be quickly deployed as an effective method to contain flames, smoke and toxic fumes within a matter of seconds. Designed to isolate and control high-temperature fires caused by lithium batteries, helping prevent escalation and limit damage. Suitable for e-bikes, e-scooters and EV batteries including the Tesla Model 3 and VW ID.4. Manufactured from high performance fibreglass fabric with silicone coating, withstanding direct continuous temperatures up to 500°C. Designed as a measure to contain fire and once deployed the blanket should not be removed until emergency services have assessed the situation. Supplied in durable waterproof storage bag for easy storage and to keep on hand.

3. SPECIFICATION

| | | |
|--------------------------------------|-------------------|--|
| MODEL NO: | EV500S | |
| Nett Weight: | 7.4kg | |
| Size: | 3 x 4m | |
| Material: | Fibreglass Fabric | |
| Coating: | Silicone | |
| Thickness: | 0.45mm | |
| Instant Working Temperature: | 1000°C | |
| Continuous Working Temperature: | 500°C | |
| * EV500S is designed for single-use. | | |

4. OPERATION

4.1. PREPARATION & ASSESSMENT

- 4.1.1. Sound the alarm. Alert others in the area and initiate evacuation procedures if not already done.
- 4.1.2. Call for emergency support. Designate someone to call the local emergency number.
- 4.1.3. Put on appropriate PPE before approaching the fire.
- 4.1.4. Assess the situation. Ensure the fire is small and contained (e.g., in a metal tray, on a non-combustible surface). If the fire is large, spreading, or involves other flammable materials, evacuate immediately and wait for professional firefighters with Class AVD iths.
- 4.1.5. Identify a safe approach path with a clear exit route behind you, upwind from the smoke/fumes.

4.2. BLANKET RETRIEVAL & HANDLING

- 4.2.1. Locate the blanket storage, which should be clearly marked and easily accessible.
- 4.2.2. Grasp the blanket by the corner tabs or handles. **DO NOT** wrap the blanket around your hands.
- 4.2.3. Unfold or unroll the blanket fully, if possible, before approaching the fire. A 3 x 4m blanket is large; dragging it can help spread it out.
- 4.2.4. Ensure the silicone-coated side (the more reflective, slick side) will face down towards the fire. This coating provides higher heat reflection and durability against molten lithium.

4.3. APPLICATION TECHNIQUE

- 4.3.1. Holding the blanket with your arms extended, shield your body and face with the blanket as you approach.
- 4.3.2. Approach the fire from the upwind side, if possible.
- 4.3.3. Cover the fire completely in one smooth, draping motion. Start from the edge closest to you and lay the blanket down over the fire, working away from your body to avoid pulling heat and fumes towards you.
- 4.3.4. Ensure the blanket fully covers the fire and a significant margin of the surrounding non-burning area. The goal is to smother the fire by cutting off oxygen and containing splatter.

4.4. POST-APPLICATION & SECURING

- ✱ **DO NOT** attempt to pat down or press on the blanket. This can disturb the blanket and reintroduce oxygen, or cause molten lithium to splash.
- 4.4.1. Leave the blanket in place. The blanket must remain undisturbed to allow the fire to cool completely. Lithium fires can reignite if exposed to air before cooling.
- 4.4.2. Secure the perimeter. Mark the area as a hot zone and prevent anyone from disturbing the covered fire.
- 4.4.3. Stand by with a Class AVD fire extinguisher (Lithium-specific, e.g., Lith-X, Met-L-X) in case of breakthrough or reignition around the edges.

4.5. POST-INCIDENT

- ✱ **DO NOT** remove the blanket until the area has completely cooled for an extended period (consult safety data sheets, often 1+ hours).
- 4.5.1. After cooling, carefully lift one corner of the blanket using a tool (e.g., a long tongs) while wearing full PPE to check for remaining heat or active fire.
- 4.5.2. Dispose of the used blanket as hazardous waste. It will be contaminated with lithium compounds and is not reusable.
- 4.5.3. Report the incident and replace the blanket immediately.



5. MAINTENANCE

- 5.1. Store in bag provided, keep in a cool, dry place away from direct sunlight.
- 5.2. EV500S is for single-use only and should be disposed of in accordance with local regulations.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



REGISTER YOUR
PURCHASE HERE

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

Jack Sealey Ltd t/a Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk, IP32 7AR UK

Jack Sealey (EU) Ltd t/a Sealey Group, Farney Street, Carrickmacross, Co. Monaghan, A81 PK68 Ireland

Tel: 01284 757500 • **Email:** sales@sealey.co.uk • **Web:** www.sealey.co.uk