FIRE ISOLATOR

Exclusivity EMME Antincendio

Edition 1
September 2024

The innovative patented safety device for contain and quickly isolate fires for lithium batteries, reducing the risk of flame propagation.

EMME50 ANTINCENDIO

FIRE ISOLATOR

Exclusivity EMME Antincendio

Technology and innovation

Components

- Fire detection sensors
- Release mechanisms of the insulation system
- Types of insulation materials used and their properties (e.g. heat resistance, flame suppression capacity)

Main Benefits

- Rapid detection and immediate containment
- Protection of people and property
- Reduction of structural damage
- Compatibility with various environments

How it works

Fire Isolator uses an advanced detection system combined with state-of-the-art insulation materials. Upon detection of a flame, the system activates an isolation mechanism that blocks the fire, minimising available oxygen and nipping the fire in the bud.

Sectors of use

- Public transport
- Manufacturing industries
- Commercial and office buildings
- Data centres and critical infrastructure
- Corporate
- Warehouses
- Naval Sector


FIRE ISOLATOR
CAR BLANKET
ULTIMATE

Solutions

Discover the components that are part of the Fire Isolator range, each specifically designed and developed to meet the safety requirements of any type of environment.

2930-96

Fire blanket lithium battery risk.

Data sheet and safety data sheet available

Description

The 2930-96 Flame blanket is a highly efficient, high temperature resistant blanket specially designed to control and isolate electric car fires. By depriving the ingress of oxygen, the blanket reduces smoke and toxic gases, creating an enclosed space, which, with the help of aerosol units, effectively suppresses the flames.
The fire will not spread further, avoiding collateral damage to the surroundings.

Features and benefits

- Made from silica-based materials, for a temperature resistance of up to 1600 °C/2900 °F (peak temperatures) and environmentally friendly.
- Dimensions 9 x 6 metres- The blanket can withstand temperatures of 1200 °C/2200 °F. for more than 50 hours.
- Tested according to ISO EN 13501-1 (A1 classification) and ASTMD6413.
- The fire blanket is reusable and can be cleaned.
- Easy to use, it is equipped with coloured loops.
- Protects the environment and prevents collateral damage.
- Suitable for small cars up to large pick-up trucks.
- Different sizes are available on request, as well as for small electric vehicles (LEV) such as e-scooters / e-bikes.

2930-86UT

Coperta antifiamma ad alta resistenza con rivestimento in silicone specifica per veicoli con batterie al litio e riutilizzabile.

Data sheet and safety data sheet available

Description

The 2930-86UT is a very efficient and durable fire blanket for professional use, designed for higher temperatures of up to 1700 °C. This blanket is made of ultra-high grade silica with a silicone coating, which means it has a double coating.

Features and benefits

- Made from materials with an extremely high silica content, for temperature resistance up to 1700 °C.
- Dimensions: 8 x 6 metres
- The blanket can withstand temperatures of 1200 °C/2200 °F. for more than 50 hours.
- Tested according to ISO EN 13501-1 & ASTMD6413.
- The fire blanket is reusable up to 30 times and can be cleaned.
- Easy to use, comes with coloured rings.
- Protects the environment and prevents collateral damage.
- Suitable for small cars up to large pick-up trucks.
- Different sizes are available on request, as well as for small electric vehicles (LEV) such as e-scooters/e-bikes.

2930-33

Lithium battery risk blanket
specifically for battery pallets and e-scooters.

Data sheet and
safety data sheet
available

Description

Fire blanket 2930-33 can be used for lithium batteries and scooters/bikes. By using this blanket, the lithium fire is isolated, preventing the spread of fire and avoiding collateral damage, as well as reducing the spread of smoke.

The fire blanket is reusable and can be cleaned. It can withstand peak temperatures of 1600 °C and can withstand 1200 °C for more than 50 hours.

Features and benefits

- Made of silica-based materials,
  for temperature resistance up to
  1600 °C/2900 °F (peak temperatures) and environmentally friendly.
- Dimensions: 3 x 3 metres
- The blanket can withstand temperatures of
  1200 °C/2200 °F. for more than 50 hours.
- Tested according to
  ISO EN 13501-1 (classification A1) and ASTMD6413.
- The fire blanket is reusable
  and can be cleaned.
- Easy to unfold, equipped with coloured loops.
- Protects the surroundings and
  prevents collateral damage.

2930-22

Lithium battery risk blanket
specifically for battery pallets and e-scooters.

Data sheet and
safety data sheet
available

Description

The 2930-22 fire blanket can be used for lithium batteries and scooters/bikes. By using this blanket, the lithium fire is isolated, preventing the spread of fire and avoiding collateral damage, as well as reducing the spread of smoke.

The fire blanket is reusable and can be cleaned. It can withstand peak temperatures of 1600 °C and can withstand 1200 °C for more than 50 hours.

Features and benefits

- Made from silica-based materials, for a temperature resistance of up to 1600 °C/2900 °F (peak temperatures) and environmentally friendly.
- Dimensions: 2 x 2 metres
- The blanket can withstand temperatures of 1200 °C/2200 °F. for more than 50 hours.
- Tested according to ISO EN 13501-1 (A1 classification) and ASTMD6413.
- The fire blanket is reusable and can be cleaned.
- Easy to unfold, equipped with coloured loops.
- Protects the surroundings and prevents collateral damage.

Solutions

2931-50

Isolated breakthrough axe.

Data sheet and safety data sheet available

Description

The fireman's axe is a valuable tool for firefighters, used for various tasks during firefighting and rescue operations.

The fire axe with fibreglass handle is designed and tested according to the FSS code. The head is forged and hardened from C60 steel. A high-voltage insulation test report can be supplied on request. It is part of the fire brigade equipment.

Dimensions and technical specifications

- Width: 28 cm
- Height: 92 cm
- Diameter: 4 cm
- Weight: 2.6 kg
- Handle length: 90 cm
- Material: steel blade / glass fibre handle with rubber cover
- Storage between -30°C - +40°C humidity max. 80%
- Treatment: Anti-corrosion paint
- Standard: FSS Code, DIN 14900
- Insulation: Up to 2 kV/ 12 kV DC voltage

Use

Using the fire axe requires proper training and technique, as it is a powerful tool that can be dangerous if not handled correctly.

1. Grasp the handle firmly with both hands.
2. Use a firm swing to make clean cuts.
3. Assess the situation before breaking through walls, floors or cars during rescue operations.
4. Communicate with your team to ensure coordination.
5. Prioritise safety by wearing protective clothing

5. Prioritise safety by wearing protective clothing and paying attention to hazards.

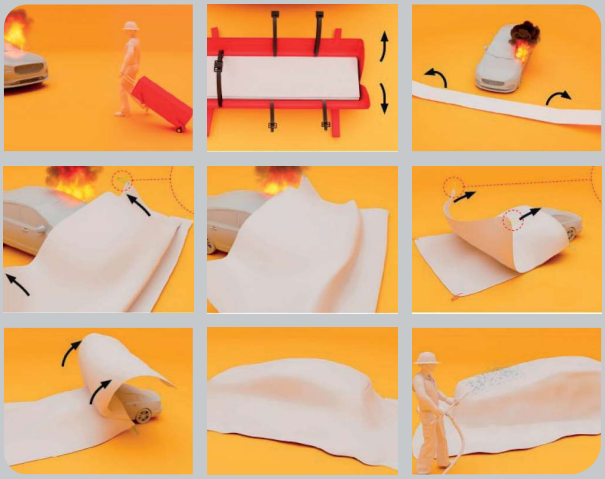
2931-30

Trolley for transporting blankets.

Data sheet and safety data sheet available

Description

The Trolley is a portable and efficient solution designed to facilitate the transport of the fire blanket by one person. It allows quick and convenient use without the need for several people to carry the blanket.
The trolley is particularly easy to handle on flat surfaces. Its sliding wheels and user-friendly design make it an ideal choice for environments where speed and accessibility are crucial.
The trolley is also equipped with an easy-to-open Velcro strip, providing quick access to the fire blanket in emergency situations.



Dimensions and technical specifications

- Size: 105 x 45 x 25 cm
- Size with extended handle: 134 x 45 x 25
- Material: PVC coating on both sides
- Our trolleys do not have an expiry date, but have a shelf life of more than 25 years if stored correctly.

Use

1. Place the bag with the blanket in front of or behind the car.
2. Open the sack completely and loosen the straps around the blanket.
3. Unfold the blanket widthwise, the green rings must be at the top.
4. Take the green rings for the first part of the car cover lengthwise.
5. Pull the green rings, the first half of the car is covered.
6. Take the red or yellow rings (whichever is on top) for the second stage.
7. Pull the second part of the blanket to cover the second half of the car.
8. Tighten the blanket to make sure it touches the ground around the car.
9. Moisten the blanket to make it almost gas- and smoke-tight.

2931-20

Vertical outdoor box with plate for containment deck and accessories.

Data sheet and safety data sheet available

Description

The Fire Isolator steel cabinet is robustly constructed specifically for safe storage of the Fire Isolator blanket.
Made of sturdy red steel plate, the locker is equipped with shatterproof glass for emergency situations and comes with instructions on how to use the fire blanket.

Dimensions and technical specifications

- Dimensions: 1200 x 420 x 350 mm
- Weight: 16 kg
- Material: 0.8 mm thick steel sheet
- Colour: Red - RAL3000

2931-60

Aerosol set with box (2 pieces).

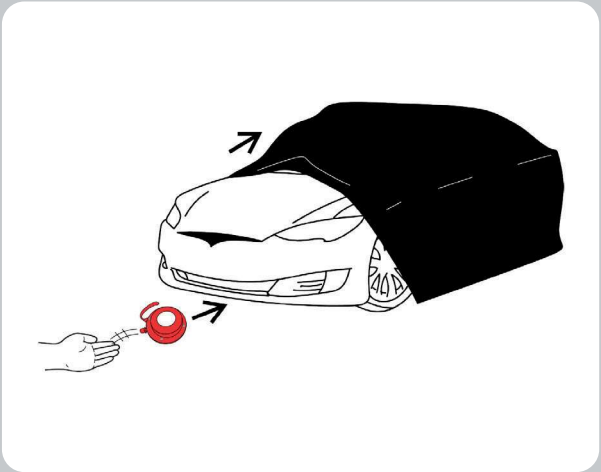
Data sheet and safety data sheet available

Description

Aerosol units are lightweight, portable devices that use specialised aerosol technology (containing potassium nitrate) to extinguish fires. The device releases a form of tiny solid particles suspended in a gas.

These particles interfere with the chemical chain reactions of the fire, interrupting the combustion process. With the Fire Isolator blanket providing the confined space for the aerosols to be effective and the water mist to further cool the car and make the blanket even more airtight, the aerosol units are a crucial part of the Fire Isolator concept to contain the car fire.

In the case of fires in electric vehicles, with the battery undergoing thermal exhaustion, aerosols cannot completely stop the thermal exhaustion or extinguish the fire. It can, however, greatly reduce the flames, resulting in a drastic reduction in temperature. This makes the situation much more controllable.



Features and benefits

- Aerosol units have a service life of 15 years
- The devices can be stored at a temperature between between 5 °C and 40 °C (80% humidity)
- Volumetric coverage of up to 45 m3 (or 1400 ft3)
- Does not deplete oxygen levels
- Product certifications: EN 15276-1, ISO 15779, KIWA BRL K23001, UL 2775, NFPA 2010 AS 4487, ISO 9094
- Regulatory certificates: ISO9001, ISO14001, BSI Kitemark, CE, EPA SNAP, ATEX
- Ecologically safe and environmentally friendly
- Harmless to humans and animals.

Aerosol units work best after deployment of the fire blanket, in an enclosed space. Always make sure to maintain a safe distance from the fire. It is recommended that first responders and fire fighters be trained in the use of aerosol units to ensure effective and safe use in fire control scenarios.

2931-10

Horizontal box suitable for marine use for containment of deck and accessories.

Data sheet and safety data sheet available

Description

This durable top box is designed to withstand the most adverse weather conditions and can be placed outside for a very long time.
Ideal for marine use, it is specially designed to hold the larger decks (2930-86UT and 2930-96) and various accessories.

Dimensions and technical specifications

- Dimensions: 1450 x 500 x 450 mm
- Material: 0.8 mm thick steel sheet
- Colour: Red - RAL3000

2931-40

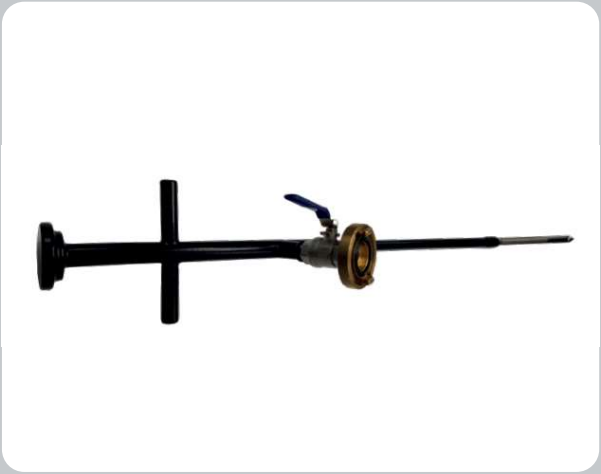
Water mist lance set (insulated 1000 volts)

Data sheet and safety data sheet available

Description

The water lance, also known as a water mist lance or water mist gun, is a fire-fighting device that produces a fine mist of water to extinguish fires. It is a portable and versatile tool used by fi-refighters to control and extinguish fires in various situations, particularly those where traditional firefighting methods may not be suitable.

The water lance is often used to produce a fine mist of water over the fire blanket
deployed, to further cool the car.
By spraying a water mist over the deck (with the car underneath it), the vapour escaping from the deck is abated so that most of the toxic (white) vapour remains under the deck instead of flowing into the building/boat/garage.



Features and benefits

- Made of high-quality stainless steel.
- The upper lance shaft is PE-coated
  to prevent electric shocks.
- When connected to a water supply,
  the lance produces a fine mist.
- The length of the shaft is adjustable
  from 500 mm to 1350 mm.
- Nominal pressure and flow are approx.
  90 l/min at 8 BAR.
- The spray lance is ABS approved and meets the requirements of SOLAS II-2/10.7.3

Fire Isolator Kit

Products can also be distributed in pre-assembled kits according to customer requirements or technical specifications.
A tailor-made solution is ready-to-use, with everything you need.

Naval Kit

Description

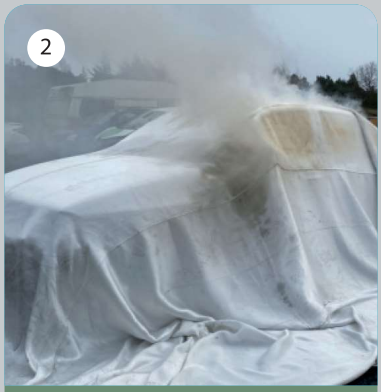
The Naval Fire Isolator Kit, distributed by EMME Fire Protection, is the ideal solution for fire protection on ships, ferries and cargo vessels.
Designed to meet the specific needs of fires on board electric vehicles (EVs), this kit includes everything needed to safely manage a fire, reducing risks to the ship's structure and crew. The Fire Isolator system quickly isolates the burning vehicle, limiting the spread of fire and the release of toxic fumes, providing maximum protection in the most extreme conditions.

Kit components

1

2391-10
Horizontal box suitable for marine use for storing
deck and accessories.

2



2930-96
Fire blanket lithium battery risk

3

2931-60
Aerosol set with box (2 pieces).

4

2931-40
Water mist lance set
(insulated 1000 volts).

5

2931-50
Isolated breakthrough axe.

6

2931-30
Trolley for blanket transport.

Terrestrial Kit

Description

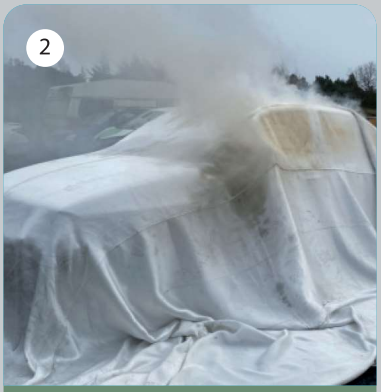
The Terrestrial Fire Isolator Kit, distributed by EMME Fire Protection, is designed for use in car parks, charging stations, workshops and other terrestrial contexts where the risk of electric vehicle (EV) fires is high. This complete kit includes all the necessary components to quickly isolate and control the flames, limiting damage to surrounding buildings and protecting people. By combining fire blankets, aerosol units and other innovative devices, the Fire Isolator system offers an effective solution for managing critical fires in civil and industrial environments.

Kit components

1

2391-20
Vertical outdoor box with sheet for containment deck and accessories.

2



2930-96
Fire blanket lithium battery risk.

3

2931-60
Aerosol set with box (2 pieces).

4

2931-40
Water mist lance set (insulated 1000 volts).

5

2931-50
Isolated breakthrough axe.

6

2931-30
Trolley for blanket transport.

Effectiveness and reliability guaranteed, and certified.


FIRE ISOLATOR
FIREBLANKET FOR ALL VEHICLES
WWW.T-ISS.COM

Before the fire, here we are.

For over fifty years we have been committed to be your reliable partner and at the cutting edge.

Historically recognised as a solid reality in the security sector, EMME Firefighting has been, is and will be the point of reference for all security professionals.
Through partnerships with customers and the community, we strive to exceed expectations; we strive to be a beacon of innovation in the industry, each project becoming an opportunity to study and introduce new technologies and solutions, anticipating and exceeding emerging needs.
Years of work, commitment, curiosity, research and development have ensured that today EMME stands out in the market for the reliability of those who competently take care of every detail, the consultancy of those who are always at their customers' side, the uniqueness of those who study the best and most avant-garde solution, the sustainability of those who take seriously their commitment to a safer and more ecological future.
These characteristics, combined with an always innovative vision, have allowed us to be the first Italian company in the production of fire extinguishers to develop sustainable solutions; our tenacity has enabled us to transform a company with solid Italian origins into an international reality, now present in no less than 43 countries, capable of taking its quality beyond the borders of Italy.


EMME
ANTINCENDIO
Green Wave
FIRE EXTINGUISHER
EMME
ANTINCENDIO