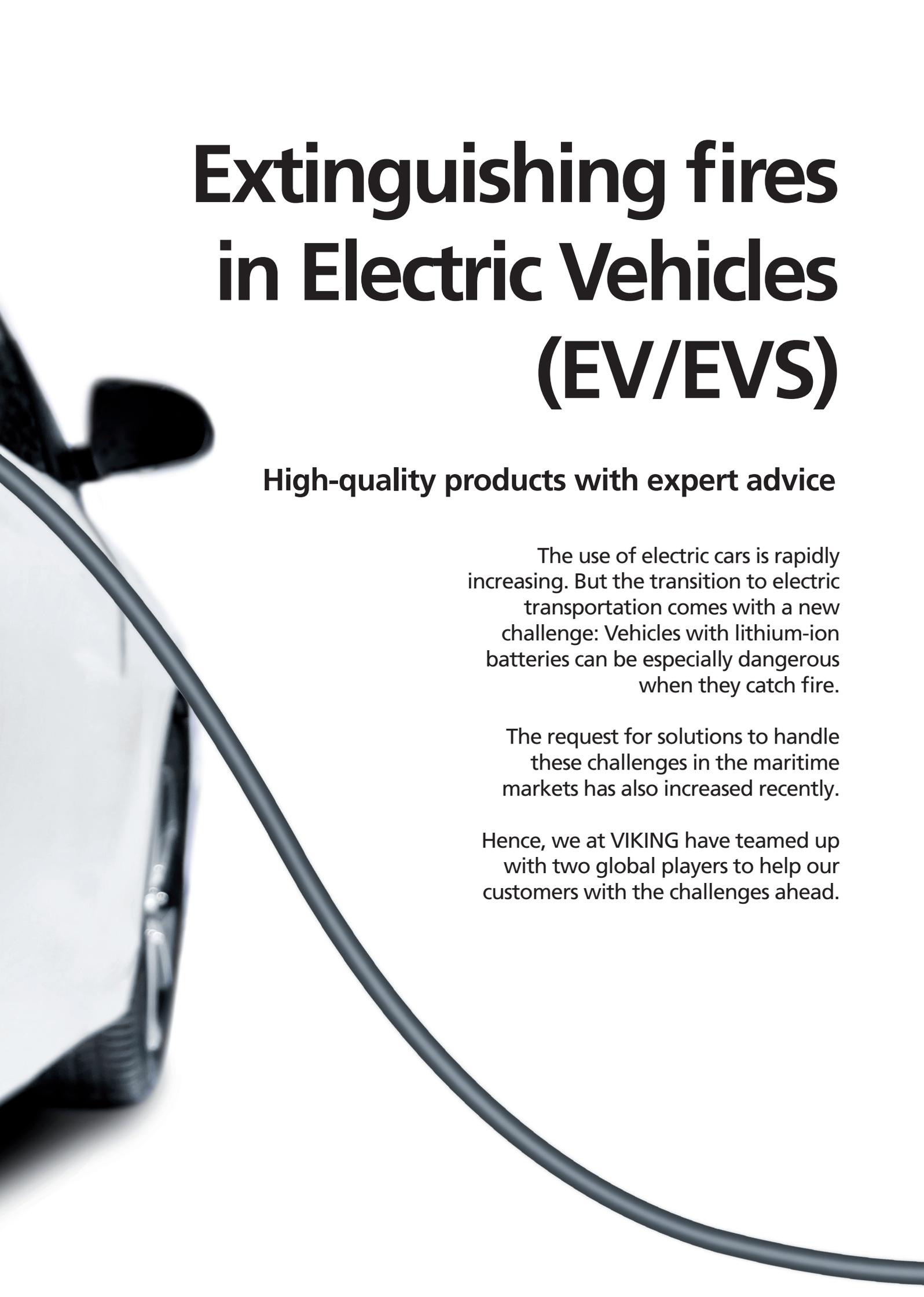




Firefighting solutions for EV battery fires

VIKING LIFE-SAVING EQUIPMENT
Your safety is safe with us





Extinguishing fires in Electric Vehicles (EV/EVS)

High-quality products with expert advice

The use of electric cars is rapidly increasing. But the transition to electric transportation comes with a new challenge: Vehicles with lithium-ion batteries can be especially dangerous when they catch fire.

The request for solutions to handle these challenges in the maritime markets has also increased recently.

Hence, we at VIKING have teamed up with two global players to help our customers with the challenges ahead.



 rosenbauer

Battery Extinguishing System Technology (BEST)

Battery Extinguishing System Technology (BEST) by Rosenbauer

The new Rosenbauer extinguishing system for high-voltage batteries in electrically powered cars is a safe and efficient system for extinguishing fire rapidly in lithium-ion batteries.

It enables direct cooling of battery modules or the battery cells inside the modules and thus stop the chemical reaction and consequent heating fast.

The increasing number of electric vehicles (EVs) has brought new risks and challenges for fire departments.

Rosenbauer is committed to fire safety and has worked extensively to develop a tool that supports and ensures the safety of the community in an easy and sustainable way. The tool has been named 'BEST'.

BEST consists of three main components: an extinguishing unit, a control panel, and hoses. The extinguishing unit is placed under the battery and, if necessary, it can be attached to the car with a jack or in another suitable position.

The preferred position is on the underside of the car. The control panel controls the extinguishing unit's spear, which penetrates the battery housing at a safe distance. Immediately after the penetration, the battery housing douses with water, and the cooling process begins.

Features



Safe

The responding crew are near the vehicle that needs to be extinguished only for a very short time. Reducing this time near the burning vehicle reduces the risk of contamination with the toxic substances emitted during the fire.

Efficient

The extinguishing system ensures that the water is propelled exactly where it has an effect, cooling the battery cells and the battery housing. This means that the extinguishing system is resource-saving and minimizes the spread of toxic gases from the fire.

Rapid penetration

Thanks to the specially-designed extinguishing spear and penetration method, all known types of battery housing can be pierced with the extinguishing spear.

Self-powered

The required energy for the extinguishing spear is delivered via pressure hoses from pressure cylinders on the control panel.



Tested in practice

Full-time and part-time emergency response services in Europe have tested the system for months and provided valuable feedback on its practical application.

Low-pressure extinguishing system

The extinguishing system only requires an available water supply with a pressure of 4 to 10 bar. This means that the system can be used in connection with all commonly used extinguishing systems.

Tested under realistic conditions

Research and development of the system included extensive testing and trials involving a large range of battery systems and complete vehicles. The system has been tested with all known battery types used by European and American manufacturers of passenger cars, trucks and vans. The tested batteries had capacities of up to 120 kWh.

Learn more at VIKING-life.com.

Battery Extinguishing System Technology (BEST) by Rosenbauer

- Safest, most efficient and fastest way to stabilize a burning battery
- Penetration of the burning battery is possible in many operational situations
- Reduced water consumption
- Low smoke emissions into the air

ITEM NO: 1154843



Bridgehill fire blankets

Any car fire is dangerous and toxic. A car fire in a passenger ferry can be a disaster. The Bridgehill Car Fire Blanket enables you to contain the flames, smoke and toxic fumes in a car fire in seconds – and extinguish it in minutes.

Bridgehill has set high standards to develop fire blankets for electric vehicles and has shown through tests that the fire blankets can decrease a temperature over 1000 degrees Celsius to 100 degrees within a short time.

Learn more at VIKING-life.com.

Simply drag the Bridgehill Car Fire Blanket over the burning vehicle to immediately isolate the flames and fumes. The fire will soon extinguish due to lack of oxygen. In electric cars, the lithium batteries will continue to burn even without oxygen or treatment with normal fire extinguishers; the

Bridgehill Car Fire Blanket enables you to isolate the fire until trained firefighters can flood it with water. We recommend that the car fire blankets are removed from the vehicle by professional firefighters only.

Step-by-step

1. Unroll the blanket in front of or behind the car/ burning object
2. Grab the handles in the corners, and pull over the blanket in one movement
3. Wrap the blanket tightly around the car to reduce the supply of oxygen
4. Leave on for about 20 minutes

Specifications

- Size: ± 6x8 m | 19.8 x 26.3 ft.
- Weight: ± 26 kg | 57 lb. 32 oz.
- Approved standard: EN 1869:2019



Bridgehill car fire blankets

The most efficient way to isolate and extinguish car fires, even in electric vehicles.

- Fast – isolates fire in seconds
- Effective – extinguishes fire in minutes
- Simple – can be used by anyone
- Eco-friendly – no toxic fumes or liquids



Electric car fire blanket PRO, incl. smartbag.

Can be reused up to 30 times

ITEM NO: 1150585



Electric car fire blanket STANDARD, incl. smartbag.

Single use.

ITEM NO: 1155147



TRAINING car fire blanket, incl. smartbag.

Training car fire blanket is designed for use on cars for dry training only.

ITEM NO: 1163447



VIKING YouSafe™ Spark

Fire suit with a multi-layer design that provides a good thermal performance and protection. Raglan arms and an ergonomic fit allow for superior freedom of movement.

- A lightweight suit with a good balance of protection, durability and breathability
- Aramid outer shell with anti-static properties
- Extra layer of protection to reduce the risk of compression burns in the shoulders

JACKET - ITEM NO: PS8410

TROUSERS - ITEM NO: PS8460



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