

FIRECHIEF LITHIUM BATTERY FIRE SAFETY ACCESSORIES

Designed for use with Lithium-ion battery packs.

Firechief Heavy Duty Lithium Battery Fire Blanket

A specialist range of very large fire blankets developed specifically for Lithium-ion batteries. The blankets are capable of withstanding extremely high temperatures for a prolonged period of time as well as being robust enough to offer protection against potential debris and shrapnel expelled during a battery fire event.

- Provides safe storage and protection in transit
- Working temperature up to 1000°C
- Fire resistant technical fabrics and industrial stitching



Available in a variety of sizes:

- 2m x 1.8m
- 3.3m x 2.4m
- 9m x 6m

Firechief Lithium Battery Fire Suppression Kit (Large & Small)

- Safe storage of extinguished devices.
- Reduces the risk of explosion after the fire has been extinguished
- Withstands temperature in excess of 1000°C



Firechief Lithium Battery Fire Resistant Container

- Safe storage and transit of Lithium-ion battery packs, fireworks, and flammable chemicals
- Acts as a thermal shield to reduce the threat of ignition from thermal conductivity



LITHIUM BATTERY SAFETY RANGE

Specialist extinguishers and accessories designed to stop Lithium-ion battery fires fast.



The Firechief Lith-Ex range provides effective Lithium-ion battery fire protection to a wide range of sectors:

- Transport – Aviation, Automotive
- Energy Storage
- Waste & recycling
- Motor Sport
- Shipping
- Logistics
- Marine
- Domestic
- Industrial



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CASE STUDIES

Learn how the Firechief Lithium Battery Safety Range products have been deployed in some of our case studies >



- EXTINGUISHERS
- BATTERY FIRE BLANKETS
- FIRE RESISTANT CONTAINERS
- FIRE SUPPRESSION KITS

FIRECHIEF[®]
making the world a safer place

LITHIUM BATTERY SAFETY RANGE

Put it out and keep it out.
Stop Lithium battery fires fast



Proven results on Lithium-ion batteries

Effectively extinguishes Class A Fires

Environmentally friendly products

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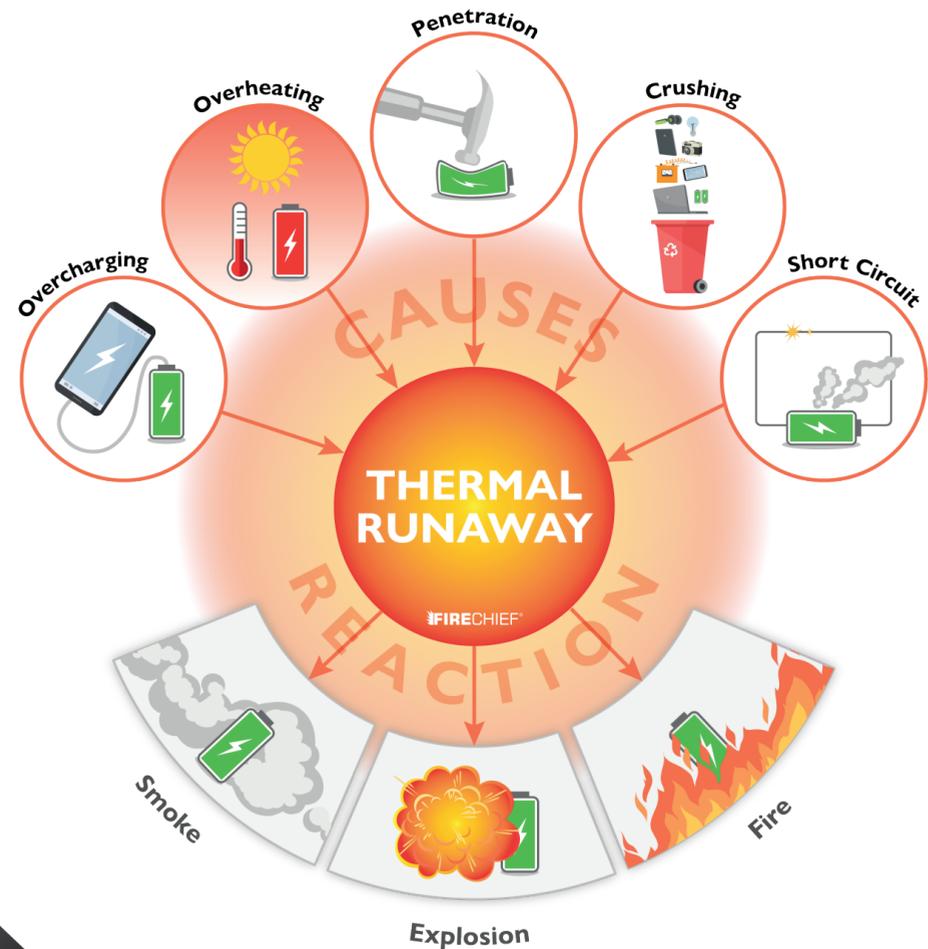
Discover the Firechief Lithium Battery Safety Range



Lithium-ion batteries are a common part of everyday life, at home and at work. They are used in many industries and in a wide range of applications including power tools, computers, personal devices, scooters and e-bikes, electric vehicles, forklift trucks and battery energy storage systems. The dangers they pose are prominent as Lithium-ion battery fire hazards can be caused by physical impact, overheating, internal cell failure, short circuits, or manufacturing defects.

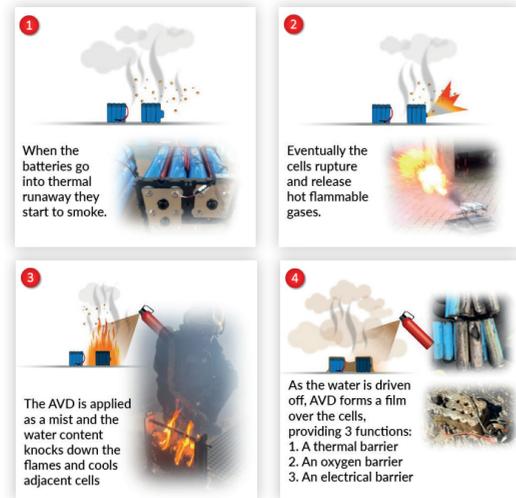
WHAT CAUSES LITHIUM BATTERY FIRES AND WHAT IS THERMAL RUNAWAY?

'Lithium-ion batteries are small and lightweight and capable of storing a large amount of energy. However, they are volatile under stress making them a fire risk'.



HOW AND WHY LITHIUM EXTINGUISHERS WORK

Firechief Lith-Ex extinguishers contain Aqueous Vermiculite Dispersion (AVD), a revolutionary fire extinguishing agent. AVD is made up of Vermiculite particles chemically suspended in water, discharged in a fine mist which provides both a cooling effect, and forms a heatproof barrier around the burning battery cell to prevent propagation and re-ignition. Vermiculite has very strong thermal insulation properties, and therefore prevents heat transfer from the burning cell to its surroundings. This means the chemical reaction is contained within a thermally stable coating so that external flames can be dealt with by the cooling effect of the water. The Vermiculite film is not electrically conductive. AVD is nearly twice as effective as water on a Class A fires and is environmentally friendly.



Aqueous Vermiculite Dispersion (AVD) Benefits

AVD fire extinguishing medium has a number of key benefits over existing solutions:

- ▶ AVD is water-based it extinguishes the fire and cools the cells
- ▶ AVD is film-forming and creates an oxygen barrier
- ▶ AVD encapsulates the fuel source to prevent re-ignition
- ▶ AVD electrically insulates -35kV Dielectric test
- ▶ AVD prevents the propagation of the fire
- ▶ AVD impacts on each element of the fire triangle

PRODUCT SELECTOR: WHICH PRODUCT DO I NEED TO MANAGE MY LITHIUM BATTERY FIRE RISK?



Lithium batteries present a more frequent fire hazard each day as the number of consumer and industrial goods powered by them increases.

Firechief Lith-Ex extinguishers are designed to suppress Lithium battery fires in their infancy before developing into a fully established fire. They can also be used to protect against fires where batteries are stored or charged.

The Firechief Heavy Duty Lithium Battery Fire Blankets, Fire Suppression Kits and Fire-Resistant Containers are designed for the safe storage and transit of Lithium batteries and the smaller devices which contain them.



'Lithium battery fires are a growing problem. There has been a massive increase in awareness of the risks they pose over last 3 years, and they are now recognised as a serious Health & Safety issue by many - including Health & Safety managers'.

For more information, visit the Firechief Lithium Battery Safety Range website >>