- Proven results on Lithium-ion batteries
- Suitable for various applications
- Environmentally friendly products

FIRECHIEF®
making the world a safer place

LITHIUM-ION
BATTERY SAFETY RANGE

PRODUCT GUIDE

BE BATTERY SAFE -
CONTROL AND CONTAIN



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LITHIUM-ION BATTERY FIRE RISKS. WHAT EVERY BUSINESS NEEDS TO KNOW…

Lithium-ion (Li-ion) batteries feature in almost every part of our daily life. They power our smart phones, personal devices, laptops, e-bikes and e-scooters, electric vehicles and more.

However, in the event of malfunction, they can also represent a serious fire risk.

In 2023, the London Fire Brigade reported a notable increase in the number of fires involving lithium-ion batteries, particularly in e-bikes and e-scooters. Through the year, their firefighters attended 183 incidents, an increase of more than 50% compared to the previous year. 155 of those fires were e-bike fires, and 28 were e-scooter fires.[1] In addition to this, 11 people were killed in fires caused by e-bikes in 2023, according to data collected by Office for Product and Safety Standards (OPSS)[2].

In the UK, Lithium-ion batteries in domestic and business waste are responsible for an estimated 201 fires a year. That's 48% of all waste fires costing the UK economy £158m per annum.[3]

What goes wrong?

Whilst catastrophic Lithium-ion battery failures are relatively rare, when they do occur, they can be extremely serious. Small and lightweight, when charged, Li-ion cells store a large amount of energy and are especially sensitive to high temperatures.

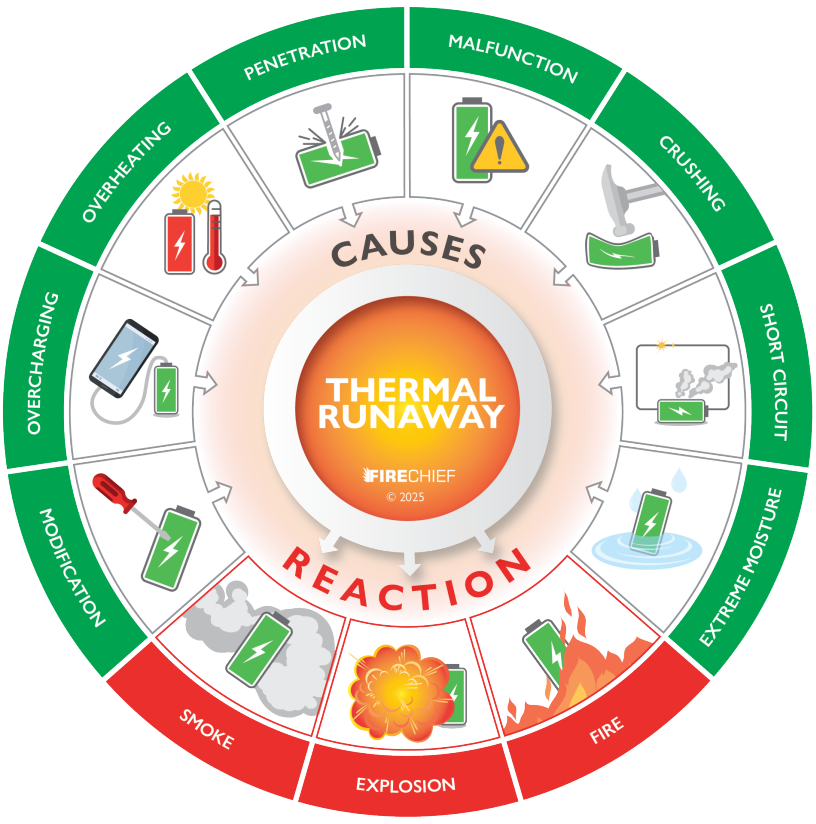
If a battery degrades, gets hot, or suffers a short circuit, heat and pressure build up inside. At a certain level, the chemical reaction creates thermal runaway, causing rapid overheating and quickly affecting adjacent cells. Batteries will spontaneously ignite, burning at extremely high temperatures, releasing flammable hydrogen and other toxic gases during and after the event. In certain situations, cells may even explode.

Suppressing Lithium-ion battery fires

The use of a highly flammable organic electrolyte makes Li-ion battery fires very hard to extinguish. Li-ion cells release oxygen as the temperature rises, further fuelling combustion.

When managing lithium-ion battery fires, containment is a key strategy to prevent the fire from spreading further. There are multiple containment methods that can be used, from specialist extinguishers to battery fire blankets. Another innovative containment solution is Firechief Pyroflow™, a glass granulate that melts around a battery during a thermal event. By encasing individual battery cells, Pyroflow™ can break the chemical reaction of thermal runaway & therefore prevent propagation of the fire.

WHAT CAUSES THERMAL RUNAWAY?



Organisations and environments at risk include…



1. One lithium battery fire every two days: London Fire Brigade issues new warning for e-bike and e-scooter fires | 2. 'Unexploded bombs': call for action after 11 deaths in UK due to e-bike fires | 3. Eunomia and the Environmental Services Association (ESA): Cutting Lithium-ion Battery Fires in the Waste Industry, Jan 2021

THE FIRECHIEF® HALO™ 10 STEP BATTERY SAFE ACTION PLAN

The Firechief® Halo™ consists of 10 steps, split into two parts.

1. Above the line are the proactive actions that you can take ahead of time to prevent an LiB fire.



2. The second part of the plan below the line shows recommended reactive actions to take in the event of an LiB fire.

STEP 1: EDUCATE

LiB fires have unique attributes and are not like other types of fire. Education and awareness is an important first step in your action plan. Our Firechief® Academy offers a range of accredited CPD courses that cover the risks, causes and effects of Lithium-ion (LiB) battery fires. Scan the QR code to find out more information.

STEP 2: ASSESS

The second step is to get a competent person to undertake a Lithium-ion battery fire risk assessment specific to your site and risks. For more information on how to appoint a qualified Fire Risk Assessor visit the Institution of Fire Engineers (IFE) website Fire Risk Assessors (FRA) Register (ife.org.uk)

STEP 3: SEGREGATE

see pages 4-5

It is necessary to separate the risk from people and combustible material. This is a proactive action that any trained health and safety professional is going to be looking at doing. This is about making sure that where the batteries are stored, where they are being charged is not adjacent to or within escape routes

STEP 4: CONTROL

see pages 6-8

What control measures can be put in place to reduce the risk and make sure that it's being managed ahead of there being an issue. These will mainly be people-based controls – in other words, behaviours. That could be recording damaged batteries or communicating with contractors on site as to what they should do if they identify a faulty battery or damage a battery in use and what the process is to follow if that's the case.

STEP 5: EARLY DETECTION

Early detection of any fire is key, but with a lithium-ion battery fire it forms a critical part. Off gas detection is an option, as is a thermal imaging device for monitoring any Lithium-ion battery, and high-level video thermal imaging for underground car parks to seek out any increases in temperature from vehicles.

An alarm detection system installed throughout the premises and incorporating detectors in all circulation areas that form part of the escape routes from the premises, and in all rooms and areas, other than those with negligible sources of ignition, is another option. Before a fire, batteries often show signs like:

- Swelling
- Unusual heat
- Gas venting
- Voltage irregularities

Detection systems can monitor for these signs and trigger alerts or shutdowns to prevent escalation.

STEP 6: TRAIN

see page 5

Fire Safety legislation requires that the Responsible Person (RP) of a premises takes reasonable steps to reduce the risk from fire. This includes training employees on preventing and fighting fire. This is especially important with LiB fires which have unique attributes and are unlike other types of fire.

STEP 7: SUPPRESS

see page 9

This involves automating a system activation to deal with a thermal event or to control or contain a thermal event. It could be a specialist sprinkler system delivering some specific extinguishant designed and tested for lithium-ion battery fire type risks; a condensed aerosol system or an automatic fire blanket. Consider what can be implemented and designed in to deal with this risk should it occur, without actually having to involve people at all.

STEP 8: ACT

see pages 10-12

Timely use of the correct equipment is absolutely central and depends on your chosen strategy and what you have trained your teams to do. They have got to act quickly, and they've got to be confident they know what they're doing when the heat is on, and they need to take action. Remember, time is of the essence when you're dealing with a lithium-ion battery fire.

STEP 9: CONTAIN

see pages 13-17

With a lithium-ion battery fire, it will mean containing the fire, rather extinguishing it. That could be by using a bag, a blanket, or a condensed aerosol unit in an enclosed space, such as a box in a cabinet or in a small room. Taking action to contain the fire allows time for raising the alarm and getting the Fire and Rescue services onto site.

STEP 10: EVACUATION

As is well known, a fire evacuation involves moving people to a safe place away from danger by following a series of planned steps and procedures to ensure they leave the danger zone in a quick and orderly fashion.

Once a lithium-ion battery fire has been detected, fire marshals/ wardens will assist in the evacuation of the building or area and should only tackle this type of fire as a first aid measure if anyone is unable to escape and it is safe to do so, but best practice is to call the Fire & Rescue Service as soon as possible.

Evacuation plans/maps and procedures must be checked regularly to ensure they are relevant and up to date, and remember to test alarms every week!

PROACTIVE

SEGREGATE

PYROFLOW™ PASSIVE FIRE SUPPRESSION GRANULES

FEATURES

- **Thermally stable packaging filler for Lithium-ion batteries**
- **Smother, suppress and encapsulate**
- **Easy to use**
- **Non-toxic and eco-friendly**
- **Free flowing**

Mineral-based fire suppression agent for metal fires and Li-ion batteries

Firechief® PyroFlow™ is a new and environmentally friendly suppression agent made from expanded glass granulate. Available in 12kg (55L) and 320kg (1454L) bulk bag option, it can be used for preventative fire protection and firefighting where Lithium-ion batteries are present. The small, lightweight spheres consist of foamed recycled glass containing tiny internal pores which form a partially closed cell structure. Since the granulate is 100% mineral based, it is not combustible.

How does Firechief® PyroFlow™ work?

Using Firechief® PyroFlow™ as a packaging media means that in the event of a battery fire, the PyroFlow™ melts to form glass which is caused by the high temperatures released by such an incident. In the process, the granules absorb a lot of heat as they melt thus cooling the fire and at the same time forming an impermeable shell around the fire load encapsulating it from further reaction.

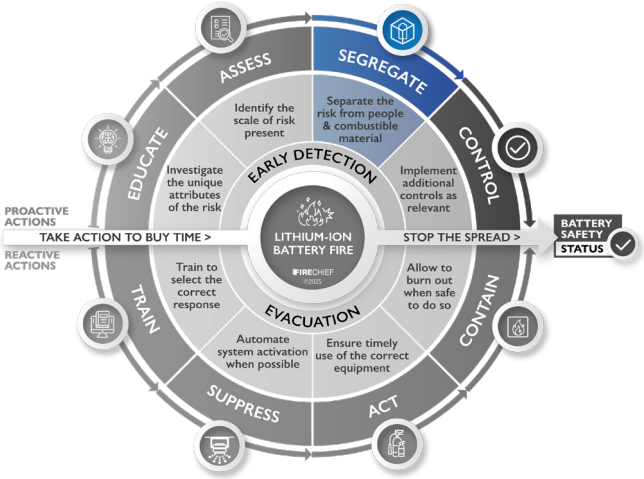
ECO friendly

D

Li Batteries

To find out more, download the product sheet

SCAN ME





MODEL: PFP/BULK
CODE: 142-1004

MODEL: PFP12
CODE: 142-1000

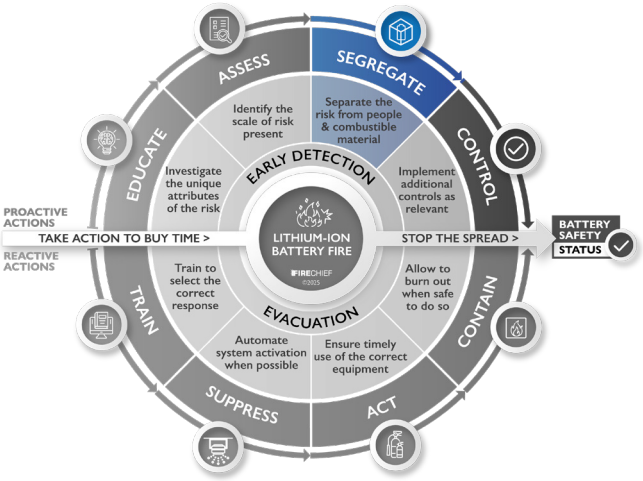
PROACTIVE

SEGREGATE

FIRECHIEF® LITHSHIELD® PALLET COVER

FEATURES

- DIN 91489 approved fabric
- Made from fire-resistant material
- Early stage suppression
- Performs at temperatures up to 1300°C (peak)
- Easy to use
- Minimises smoke & toxins



Shield your palletised goods and warehouse from lithium-ion battery fire hazards with our custom-fit fire protection pallet covers!

Made from fire-resistant material, these pallet covers act as a barrier against potential ignition sources in warehouses, storage facilities, and transportation. They control and suppress flames in their early stages, preventing fire spread and reducing the risk of smoke and toxic gas inhalation, especially during lithium-ion battery fires.

Simple to apply, they come in a range of sizes to perfectly fit your specific pallets and stacked goods height, offering enhanced fire safety and peace of mind.

Code	Model	Dimensions
104-1101	FPC1	1250 x 850 x 1165
104-1102	FPC2	1350 x 1350 x 1050
104-1103	FPC3	1250 x 850 x 1765
104-1104	FPC4	1250 x 1050 x 1650
104-1105	FPC5	1250 x 1050 x 1420
104-1106	FPC6	1250 x 1050 x 1100
104-1107	FPC7	2450 x 1650 x 680

Li Batteries

DIN APPROVED

To find out more, download the product sheet

SCAN ME



PROACTIVE

SEGREGATE

FIRECHIEF® LITHSHIELD® BATTERY RACKING COVER

FEATURES

- DIN 91489 approved fabric
- Withstands high temperatures, contains flames, and prevents the spread of fire
- Mitigates fire risks from lithium-ion battery failures
- Lightweight and easy to install or remove
- Customisable to fit racking dimensions for optimal fire safety
- Shields batteries from fire, dust, moisture, and contaminants
- Protects against environmental damage to extend battery life

The Firechief® LithShield® Battery Racking Cover provides robust fire protection, specifically designed to contain the risks associated with battery fires, including thermal runaway incidents.

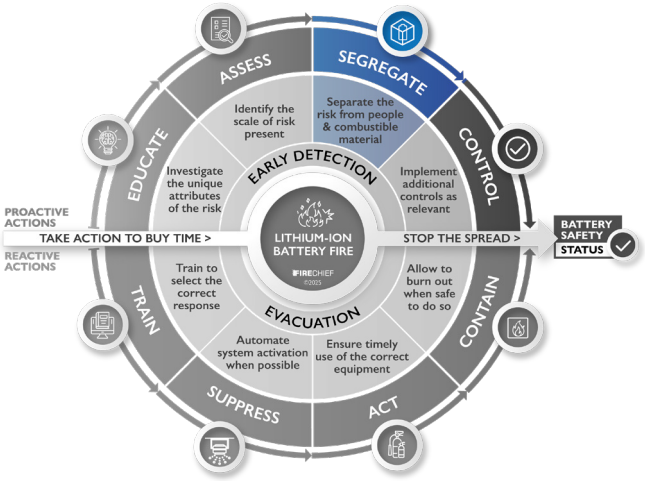
Made from fire-resistant materials, these covers offer comprehensive safety, ensuring that your battery storage is protected from both fire hazards and environmental factors like dust, moisture, and debris.

Easy to install and available in customizable sizes, the Firechief® LithShield® Battery Racking Cover is the ideal solution for safeguarding battery storage in industrial settings, data centers, and renewable energy facilities.

Li Batteries DIN APPROVED

To find out more, download the product sheet

SCAN ME



Fast access with zipper and Velcro, enabling quick battery access while maintaining protection



PROACTIVE
CONTROL

FIRECHIEF® LITHIUM-ION BATTERY ALUMINIUM STORAGE CASE - 28L

FEATURES

- **High temperature resistance**
- **Lightweight highly advanced fire insulation materials**
- **Robust industrial grade aluminium**
- **Top carry handle for easy one person transportation**
- **Vented with flame arrestors for controlled pressure release**
- **Easy to use clasp fasteners**

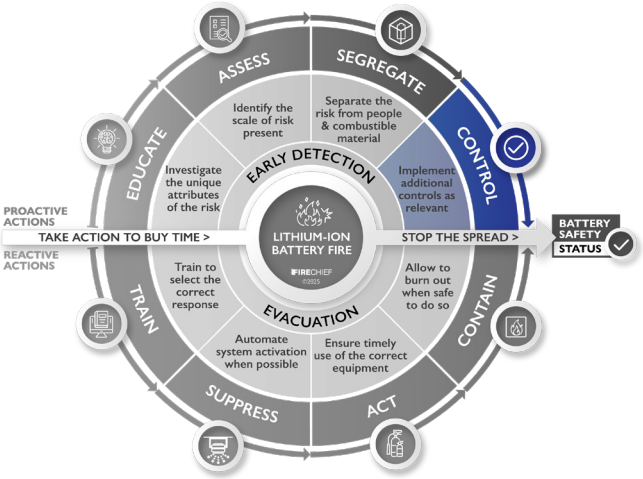
Expertly designed for the safe storage of lithium-ion batteries, aluminium storage cases are an efficient solution for protecting against the risk of fire.

The strong aluminium construction keeps the case light enough to be portable but strong enough to retain complete integrity should an event occur. Corrosion resistant and durable, with a convenient carry handle mounted on the lid, it can be easily lifted and carried by just one individual. Should a battery enter thermal runaway, the combination of vents fitted with flame arrestors allow for the controlled release of pressure without the risk of ensuing flame.

The storage case can be combined with our PyroFlow™ Passive granules as a thermally stable packaging filler. If a battery should catch fire, the PyroFlow™ will melt, absorb the heat and form an impermeable shell around the fire load – encapsulating it from further reaction. During thermal runaway a mixture of toxic gases are released which can pose a serious toxic threat, so it's essential to limit the release of these as much as possible – which PyroFlow™ will also do.

To find out more, download the product sheet

SCAN ME







MODEL: FRBAC28
CODE: 141-1066

PROACTIVE
CONTROL

FIRECHIEF® LITHSHIELD® EV SAFECOVER™ KIT

FEATURES

- **DIN 91489 approved fabric**
- **Made from eco-friendly materials and designed for multiple uses, reducing environmental impact**
- **Set consists of two blankets and a protective fleece**
- **Performs at temperatures up to 1300°C (peak)**
- **Large enough to accommodate SUVs or vans**

As electric vehicles (EVs) become increasingly common, towing services face new challenges. Unlike traditional cars, EVs pose a unique risk due to their lithium-ion batteries, which can self-ignite even days after an accident. This is where the Firechief® LithShield® EV SafeCover™ Kit steps in, offering a solution specifically designed for safe towing and storage of damaged EVs.

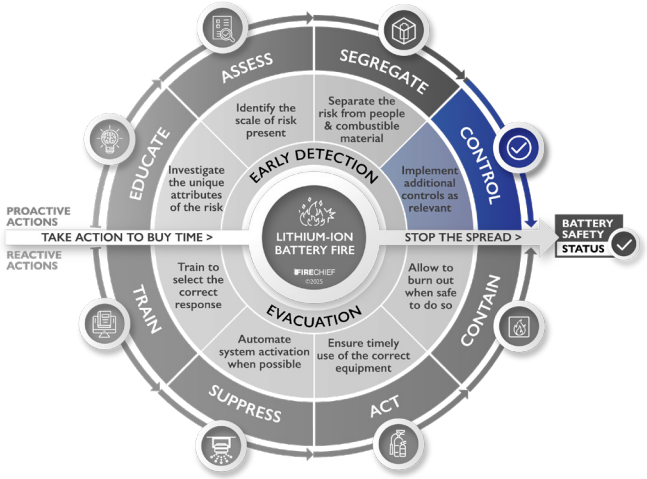
The kit includes two specially designed fire blankets to serve as a preventive measure for towing services and workshops, ensuring safety during the transportation and storage of damaged electric cars.

By incorporating the Firechief® LithShield® EV SafeCover™ Kit into their operations, towing services can operate with greater confidence, knowing they have the necessary tools to manage the specific risks associated with electric vehicles. This translates to enhanced safety for both towing crews and the general public, while promoting sustainability through its eco-friendly design and reusability.

Code	Model	Size
104-1093	FEVSK	Top blanket - 6 x 7m Bottom blanket - 4 x 7m
104-1141	FEVSKXL	Top blanket - 6 x 12m Bottom - 4 x 10m

To find out more, download the product sheet

SCAN ME







REACTIVE

SUPPRESS

PYROCLOUD™ FIRE SUPPRESSION 8000, 11000, 12000 SERIES – FIXED INSTALLATION

FEATURES

- **Easy to install and low maintenance**
- **Eco-friendly**
- **Cost-efficient**
- **Fully certified**
- **Ideal for numerous applications**

The consequences of a fire can be devastating for any business. Replacement costs, consequential damage and interruption to the business can result in endangering its survival. PyroCloud™ Fixed fire suppression units detect fire at an early stage and will extinguish it in just a few seconds.

These fixed fire suppression units can be installed quickly and easily without any interruption of ongoing processes and can be deployed in places with an ambient temperature ranging from -40°C to +75°C with humidity up to 98%.

They are guaranteed for a serviceable lifetime of at least 15 years.

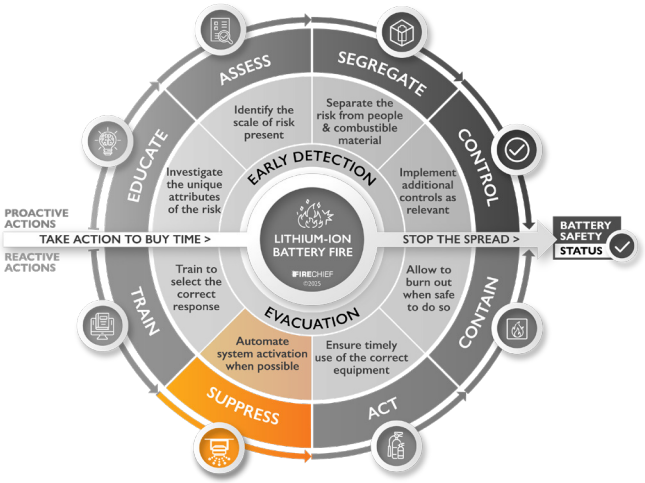
How does it work?

PyroCloud™ units can be installed inside a compartment, room or enclosure, providing protection as close to the source as possible. They have a fully automatic and independent system of activation and do not depend on electrical power supply but can easily be connected to conventional fire detection systems if required.

ECO friendly

To see the full range, visit our website

SCAN ME



Typical applications:

- Electrical Cabinets
- Archives
- Storage Rooms
- Generator & Engine rooms
- Computer & Server rooms
- Transport & Construction Vehicles
- Compressor Rooms
- Wind Turbines



MODEL: SSS8001
CODE: 141-1042

REACTIVE
ACT

LITH EX®
GEN 2 EXTINGUISHERS

BETTER VALUE, SAME EXCEPTIONAL PERFORMANCE

FEATURES

- **Kitemark approved (FLE2X, FLE6X, FLE9X)**
- **Designed for use on Lithium-ion battery fires on batteries with a power rating from 50Wh - 1000Wh**
- **Quickly cools excessive heat, preventing re-ignition**
- **Lightweight and compact**
- **Non-toxic and environmentally friendly**

How do Firechief® Lith-Ex extinguishers work?

Firechief® Lith-Ex extinguishers contain Aqueous Vermiculite Dispersion (AVD), a revolutionary fire extinguishing agent. The water content of the extinguisher cools the fire source, while the Vermiculite platelets encapsulate the fuel source creating a thermal barrier to prevent propagation of the fire.

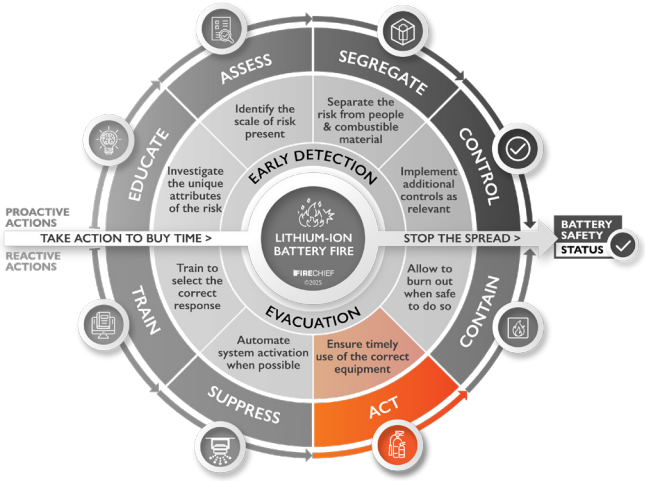
What is Vermiculite?

Vermiculite is a naturally occurring mineral, with a light consistency but when you break it down in your hands, it goes to very thin platelet structure (about 180 microns). This is what the agent is doing when it's going from its liquid to solid state as it's going on to the fire. Vermiculite is environmentally friendly as it is a completely natural product and is REACH compliant.

ECO friendly

To see the full range, visit our website

SCAN ME





MODEL: FLE9X
CODE: 100-1703

MODEL: FLE6X
CODE: 100-1702

MODEL: FLE2X
CODE: 100-1701

MODEL: FLE1X
CODE: 100-1700

WHICH LITHIUM-ION EXTINGUISHER DO I NEED?



Note: This graphic should only be used as a guide. Product choice should be based on the assessment of a qualified fire risk assessor.

TYPICAL APPLICATION	BATTERY CAPACITY (WH)	EXTINGUISHER SIZE	RATING	MODEL / CODE
Small Devices	Under 60	500ml	-	FLE500 / 100-1587
Laptops	60-100	1Ltr	3A	FLE1X / 100-1700
Power Tools	100-250	2 Ltr	5A	FLE2X / 100-1701
E-Bikes	250-500	6Ltr	13A	FLE6X / 100-1702
Portable Power Stations	500-750	9Ltr	13A	FLE9X / 100-1703
Electric vehicles & Fire Services	Over 750	25Ltr	-	FLE25 / 100-1649
Energy Services	Over 750	50Ltr	-	FLE50 / 100-1648

REACTIVE
ACT

PYRO CLOUD™
FIRE SUPPRESSION

5000 SERIES – MANUAL OPERATION

FEATURES

- **Easy to install and low maintenance**
- **Eco-friendly**
- **Cost-efficient**
- **Fully certified**
- **Ideal for numerous applications**

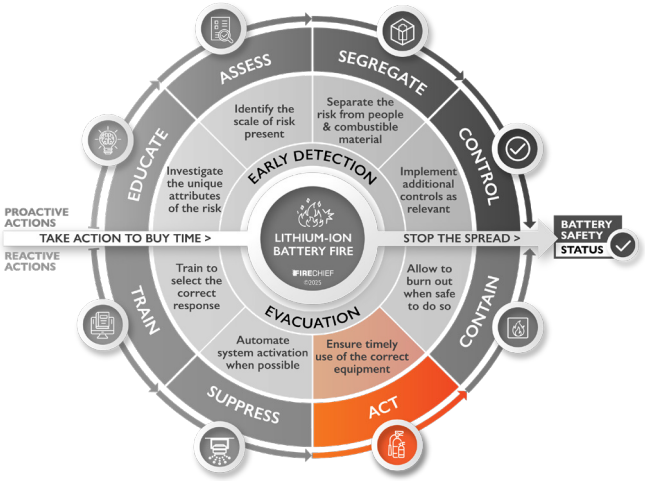
Fighting fully developed fires can result in flashovers or backdrafts. The PyroCloud™ 5000 Series of manual fire suppression units knock down flames and drop the temperature to a manageable level within 30 to 60 seconds. Flashovers and backdrafts are prevented, significantly increasing the safety of firefighters when tackling an indoor fire.

PyroCloud™ 5000 units are small and light and easy to store on site or any fire truck or smaller vehicle. They are the perfect fire-fighting tool when water supplies are low or difficult to reach and considerably reduce water damage by suppressing the fire before entry to the affected room.

Deployed quickly and easily – even by a single first responder – without entering the room, PyroCloud™ saves crucial time and money by preventing damage of equipment and property and spread of the fire to other rooms.

How does it work?

PyroCloud™ manual fire suppression units knock down flames and drop the temperature to a manageable level significantly increasing the safety of firefighters when tackling an indoor fire. The units are small, light and easy to store. Deployed quickly and easily – even by a single first responder – without entering the room, PyroCloud™ saves crucial time and money by preventing damage of equipment and property and spread of the fire to other rooms.





MODEL: SSS5003
CODE: 141-1008



MODEL: SSS5000
CODE: 141-1005

ECO friendly

To see the full range, visit our website

SCAN ME

REACTIVE

ACT

PYROFLOW™ ACTIVE FIRE SUPPRESSION GRANULES

FEATURES

- **Mineral-based fire fighting agent**
- **Smothers and cools Li-ion battery fires**
- **Easy to use**
- **Non-toxic and eco-friendly**
- **Free flowing**

Mineral-based fire fighting agent for metal fires and Lithium-ion batteries

Firechief® PyroFlow™ is a new and environmentally friendly suppression agent made from expanded glass granulate. Available in 17kg (55L) and 510kg (1500L) bulk bag option, it can be used for firefighting and preventative fire protection. It contains tiny internal pores which form a partially closed cell structure. Since the granulate is 100% mineral based, it is non-combustible.

How does Firechief® PyroFlow™ work?

By covering the fire load with Firechief® PyroFlow™, oxygen is separated from the combustible material. Firechief® PyroFlow™ melts to form glass caused by the high temperatures released by such an incident. In the process, the granules absorb a lot of heat as they melt, thus cooling the fire and at the same time forming an impermeable shell around the fire load, encapsulating it from further reaction.

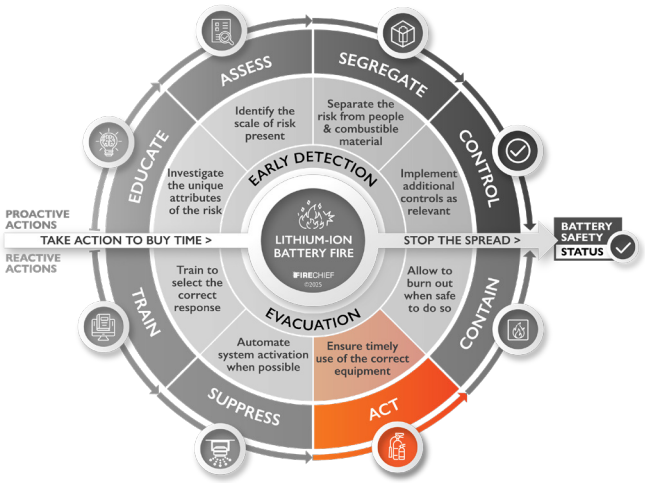
ECO friendly

D

Li Batteries

To find out more, download the product sheet

SCAN ME





Model: PFA/BULK
Code: 142-1005

MODEL: PFA17
CODE: 142-1001

REACTIVE
CONTAIN

FIRECHIEF® LITHSHIELD® LIGHT BATTERY & EV FIRE BLANKETS

FEATURES

- **Temperature resistance up to 1000°C**
- **Lightweight and easy to use**
- **Reduces chemical risks and the spread of toxic fumes**
- **Three sizes available**
- **Durable textile storage bags included**

The LithShield® Light range offers a reliable and cost-effective containment solution for lithium-ion battery fires, reducing chemical risks and toxic fumes.

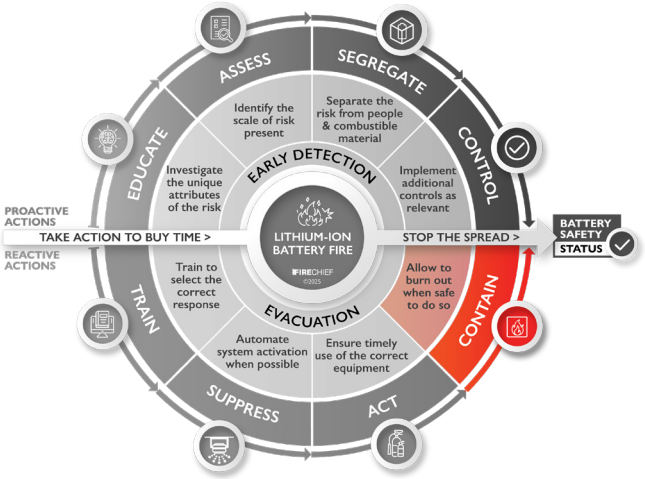
Able to perform at 1000°C, this range is available in three sizes and come in durable textile storage bags for easy handling and storage.

Code	Model	Type	Size
104-1091	FBBL303	Light	3 x 3m
104-1094	FEVBL505	Light	5 x 5m
104-1088	FEVBL608	Light	6 x 8m

LITHIUM-ION
1000°C

To find out more, download the product sheet

SCAN ME





MODEL: FBBL303
CODE: 104-1091



MODEL: FEVBL505
CODE: 104-1094



MODEL: FEVBL608
CODE: 104-1088

REACTIVE

CONTAIN

FIRECHIEF® LITHSHIELD® TOUGH BATTERY & EV FIRE BLANKETS

FEATURES

- **Temperature resistance up to 1300°C**
- **Lightweight and easy to use**
- **Reduces chemical risks and the spread of toxic fumes**
- **Three sizes available**
- **Durable textile storage bags included**

The LithShield® Tough range delivers exceptional fire containment, withstanding temperatures up to 1300°C.

All LithShield® Tough blankets are made from the high-performance material that has been through the rigorous DIN SPEC 91489 testing, with the 5x5m and 6x8m Tough EV Fire Blankets fully certified to DIN 91489.

Lightweight and easy to handle, these blankets are designed to reduce chemical risks and limit the spread of toxic fumes.

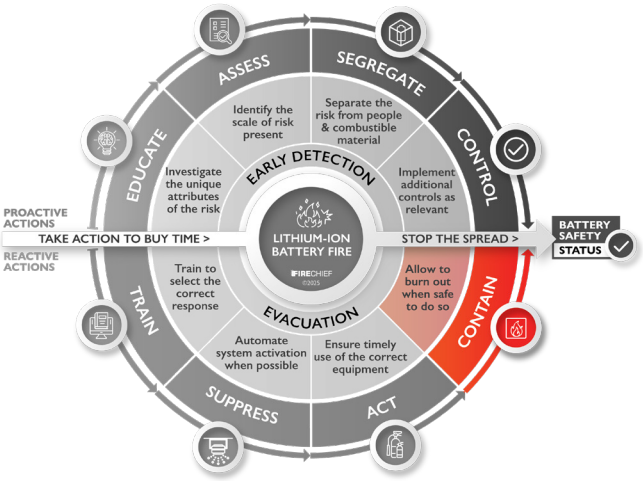
Available in multiple sizes, the LithShield® Tough range offers robust, reliable protection for a wide variety of lithium-ion battery fire scenarios.

Code	Model	Type	Size
104-1090	FBBT155	Tough	1.55 x 1.55m
104-1092	FBBT303	Tough	3 x 3m
104-1095	FEVBT505	Tough	5 x 5m
104-1089	FEVBT608	Tough	6 x 8m

LITHIUM-ION | 1300°C | DIN

To find out more, download the product sheet

SCAN ME





MODEL: FBBT155
CODE: 104-1090



MODEL: FBBT303
CODE: 104-1092



MODEL: FEVBT505
CODE: 104-1095



MODEL: FEVBT608
CODE: 104-1089

REACTIVE

CONTAIN

FIRECHIEF® LITHSHIELD® ULTRA+ BATTERY FIRE BLANKETS

FEATURES

- **Withstands rapid temperature changes even during intense spikes**
- **Performs at temperatures up to 2000°C (peak)**
- **Multi-layered for extra safety: silica fabric resists heat; fibreglass insulates**
- **Designed to contain and suppress volatile lithium-ion battery fires**

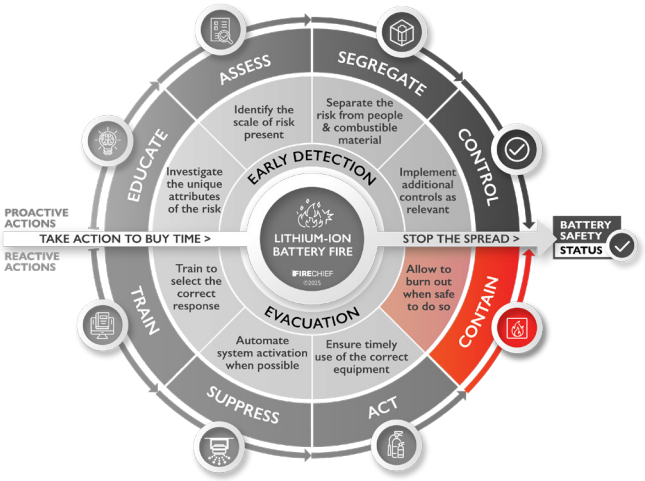
Firechief®'s LithShield® Ultra+ Battery Fire Blankets are designed for applications in environments such as car battery manufacturers, car producers or service stations with large amounts of batteries in storage. Ideal for higher voltage batteries due to their ability to withstand very high temperatures and pressures.

Code	Model	Type	Size
104-1098	FBBT180	Ultra+	1.8 x 1.8m
104-1099	FBBT260	Ultra+	2.6 x 2.6m

LITHIUM-ION | 2000˚C | DIN

To find out more, download the product sheet

SCAN ME





MODEL: FBBT260
CODE: 104-1099

MODEL: FBBT180
CODE: 104-1098



REACTIVE

CONTAIN

FIRECHIEF® EV FIRE BLANKET WHEELED CABINET

FEATURES

- **Excellent solution for storing and deploying large fire extinguishers, fire blankets (including EV size) and other essential safety equipment**
- **Made from fully recyclable PE**
- **Strong and durable**
- **Equipped with robust rubber wheels and a convenient handle**
- **Easy to manoeuvre**
- **Toggle access guarantees quick and hassle-free retrieval of equipment**

Firechief® EV Fire Blanket Wheeled Cabinet, brings convenience and efficiency to emergency situations.

Engineered for seamless manoeuvrability and swift access, this front-loading cabinet ensures that essential safety equipment is readily available when every second counts.

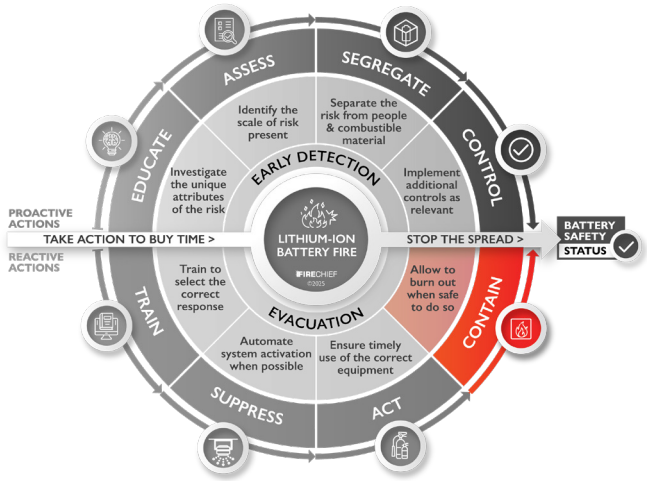
With a spacious internal capacity of 915 x 360 x 195mm, it offers ample storage for large fire extinguishers, fire blankets (including EV size), and other essential safety gear.

Constructed from fully recyclable PE, the Firechief® EV Fire Blanket Wheeled Cabinet ensures exceptional durability, promising reliable performance even in demanding conditions. Its robust rubber wheels and convenient handle make transportation effortless, allowing you to move vital equipment from one location to another with ease.

The toggle access feature ensures quick and hassle-free retrieval of equipment during critical moments, empowering responders to act swiftly and decisively.

To find out more, download the product sheet

SCAN ME





MODEL: FSEVWC
CODE: 106-1225

Suitable for FEVBT608 (not included), see page 15

REACTIVE

CONTAIN

FIRECHIEF® LITHIUM-ION BATTERY FIRE RESISTANT CONTAINER

FEATURES

- **Temperature tested to 1000°C**
- **Safe storage and transit of Lithium-ion battery packs, fireworks and flammable chemicals**
- **Insulates and isolates to contain /prevent the spread of fire and heat**
- **Flame arrestors included**

Designed for safe storage and transit of Lithium-ion battery packs, fireworks and flammable chemicals

The Firechief® Fire Resistant Container (FRC) is an innovative product that protects potentially flammable goods against the threat of fire. The exceptional insulation properties are achieved by the use of a unique combination of technical textiles which prevent the propagation of both internal and external fires.

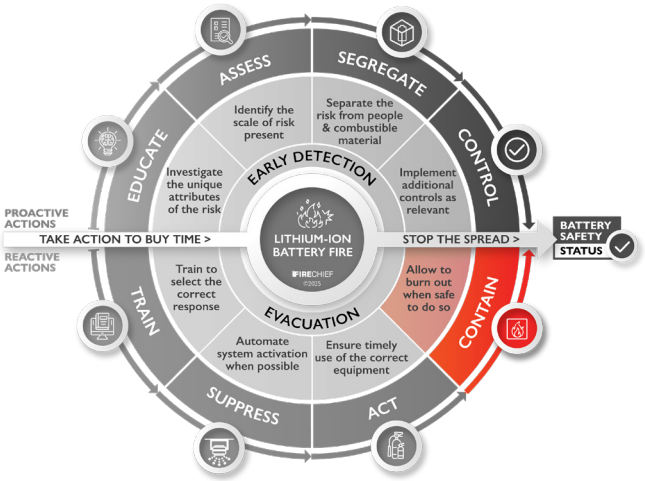
The Fire Resistant Container provides the perfect solution for transporting and storing potentially combustible products, such as batteries, fireworks and other flammable chemicals.

The FRC works in several ways:

- Contains a fire within the bag (e.g. burning batteries on a plane)
- Prevents fire spreading to adjacent material
- Gives extra time for responders to get the risk under control or people to escape
- Prevents an external fire igniting a vulnerable/ flammable cargo

To find out more, download the product sheet

SCAN ME





MODEL: FRC/AVD
CODE: 141-1041

REACTIVE

CONTAIN

FIRECHIEF® LITHIUM-ION BATTERY FIRE SUPPRESSION KITS

FEATURES

- **Suppression bag for safe storage of extinguished devices**
- **Reduces the risks of explosion after the fire has been extinguished**
- **Withstands temperatures in excess of 1000°C**

Designed for the safe suppression and removal of extinguished Lithium-ion battery devices.

The Firechief® Fire Suppression Kit is the perfect solution for the effective control and suppression of Lithium-ion battery fires. Equipped with a choice of Lith-Ex extinguishers, this fire-resistant bag is designed using technical fabrics to withstand temperatures in excess of 1000°C.

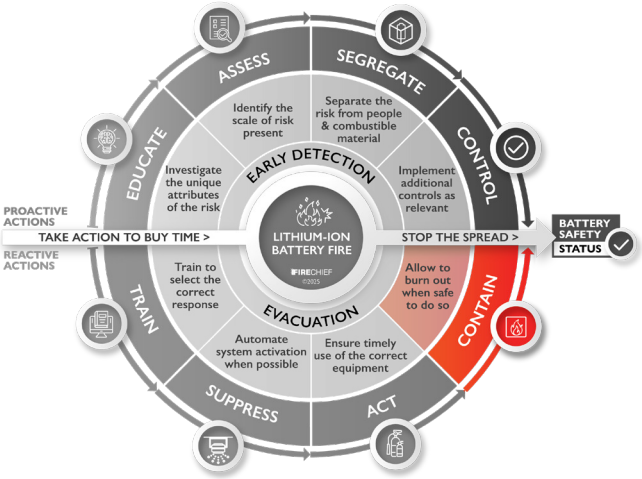
The kit provides the initial extinguisher to suppress the fire and a bag for the safe suppression and removal of the extinguished device. Typical applications are mobile phones, tablets and laptops.

Both kits include:

- Fire resistant bag (the large kit also comes with flame arrester)
- Choice of Lith-Ex extinguisher options or the kit can be supplied without an extinguisher if preferred
- Safety Gloves
- Safety Glasses

To find out the various options available, visit our website

SCAN ME





MODEL: FSKS500
CODE: 141-1039



MODEL: FSKL2000
CODE: 141-1035

HOW TO MITIGATE THE RISK OF A LITHIUM-ION BATTERY FIRE

PREVENTATIVE MEASURES:

- Treat lithium-ion batteries and the devices which contain them, with the respect they deserve. Protect the batteries against being damaged through crushing, puncturing or immersion in water as this increases the risk of fire
- Always use the charger that came with your device. If you need to buy a replacement, choose a branded, genuine product from a supplier you can trust
- Avoid storing, using, or charging lithium-ion batteries at very high or very low temperatures
- Don't leave items continuously on charge after the charge cycle is complete, e.g., don't leave your devices plugged in overnight
- Battery experts recommend that a good charging range is from 20 percent up to 80 percent and then recharge from 20 percent back to 80 percent. Lithium-ion batteries don't perform well when they are constantly charged from 1-2% up to 100% and back again
- Ensure that wherever you charge a device, you still have a clear exit from the room or property in case of fire
- Never charge a device such as a mobile phone under items such as pillows. Lithium-ion batteries need to be kept within a good temperature range, with good circulation of air around them. Always charge them on a hard surface
- When you travel, avoid keeping all your items containing lithium-ion batteries together, especially on a plane

CONTAINMENT MEASURES:

- Stop using the battery and/or charger if the temperature of either (or both) rises more than 10°C (18°F) on a regular charge.
- If a Lithium-ion battery overheats, hisses, or bulges, immediately move the device with the battery away from flammable materials and place it on a non-combustible surface. If at all possible, put the battery safely outdoors to burn out.
- Bear in mind that moving a battery which has gone into thermal runaway can cause re-ignition and the combustion process to start again for up to 10 hours after it started. Specialist products such as the Firechief® Premium Battery Fire Blanket help to stop the spread and contain the fire.

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LITHIUM-ION

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