FIRECHIEF PYROFLOW – FAQs

1. What is Firechief PyroFlow?

Firechief PyroFlow is a mineral-based extinguishing agent that is non-toxic and eco-friendly and can be used to fight and prevent fires in metal, lithium-ion battery cells and combustible liquids.

Manufactured from low grade waste glass recycled into lightweight, aerated spherical granules, PyroFlow fire suppression granules are the most affordable, effective way to contain, suppress, and isolate Lithium-ion battery fires within seconds.

2. How does Firechief PyroFlow work?

Made from recycled glass, the PyroFlow granules melt at high temperatures; as they liquify, they absorb heat, cooling the fire and forming an impervious liquid glass layer, removing the oxygen.

PyroFlow is a tried-and-tested solution as a packing media for controlling the risk of storing and transporting Lithium-Ion batteries – including damaged or recycled batteries which may leak electrolyte - by land, air, or sea**.**

3. How is Firechief PyroFlow applied to a Lithium-ion battery fire?

In the event of a fire, simply pour onto the battery fire or place the entire sealed bag onto the battery. More than one bag may be needed to completely cover the battery and prevent reignition of the fire. Depending on the size of the fire, start by placing bags around the battery/source of fire, starting at the edge. Continue to add bags to completely cover the battery/source of fire. More bags may be required should further flaring occur.

Allow ample time to extinguish and cool the battery fire. Do not uncover or remove bags for several hours.

Whenever possible, the use of personal protective equipment is advised when applying PyroFlow, including safety glasses and heat resistant/protective gloves.

4. Does Firechief PyroFlow have any other uses?

Because PyroFlow granules bind liquids and filter gases, this makes them an ideal packing media for storing or transporting damaged or recycled batteries which may be at risk of leaking electrolyte.

5. How large are the Firechief PyroFlow granules?

Firechief PyroFlow 'Maxi' granules range from 1-4mm in diameter and come packaged in convenient 12.5 kg bags.

6. How should Firechief PyroFlow be stored?

PyroFlow granules are stored in convenient 12.5 kilogram bags. It is recommended that the product is protected against humidity in storage.

7. Which industries/applications would find Firechief PyroFlow useful to mitigate their Li-Ion battery fire risks?

Lithium-ion batteries present a risk across many organisations and environments, but Firechief PyroFlow granules provide an eco-friendly, non-toxic, lightweight, and easy to use way to treat lithium-ion battery fires.

Example PyroFlow applications and use cases include:

Emergency Fire Services

- Convenient, portable media to instantly contain Li-ion battery fires.

Supply Chain and Logistics

- Safely package and transport batteries (including damaged, defective, and recycled lithium-ion batteries) by land, sea, or air.

Recycling Centres and consumer retail recycling points

- Mitigate the risk of spontaneous combustion events in commercial recycling operations.
- Safeguard consumers depositing products with Li-ion cells.

Transport operators and passenger hubs

- Emergency suppression for Li-ion device fires on buses, trains, ferries/ships and aircraft and all associated passenger hubs

Consumer device manufacture and retail

- Safely package and transport Li-ion batteries and devices
- Emergency suppression for Li-ion battery fires

Battery Electric Vehicle manufacture and retail

- Lightweight suppression media for battery compartments on vehicles
- Emergency suppression for Li-ion battery electric vehicle fires

E-scooter/e-bike OEMs and retailers

- Safely package and transport Li-ion batteries and products
- Emergency suppression for Li-ion battery fires

Aerospace and Defence manufacturers

- Lightweight suppression media for Li-ion battery compartments
- Emergency suppression for Li-ion battery fires

8. What are the benefits of Firechief PyroFlow?

- Easy to use.
- Lightweight
- Non-toxic
- Eco-friendly
- Free flowing
- Smothers and cools Li-ion battery fires

9. What standards apply to the PyroFlow product?

PyroFlow has been tested in Germany at the testing facility MPA Dresden. A test certificate is available.

PyroFlow meets all the requirements for a practical and safe packaging solution. Absorption capacity has been tested by the Federal Institute for Materials Research and testing BAM Germany.

Standard DIN EN 3-7:2007

10. Is it possible to see PyroFlow in action?

Please see the Firechief PyroFlow video on the Firechief YouTube channel