



LITHIUM-ION PORTABLES

FIRE EXTINGUISHERS REDEFINED

! Class A

FC - Li-Ion Portable is Three times more effective on Class A Fires compared to an ordinary ABC Extinguisher.

! Electrical

FC - Li-Ion Portable is Suitable for Electric Fire also.

! Lithium-Ion

FC - Li-Ion is applied as a fine mist, which instantly cools the batteries and extinguishes the flames.

SPECIFICATIONS

Model	FC-Li-Ion	Extinguishers		
Capacity (lb)	2 L	4 L	6 L	9 L
Fire Rating	1A	2A	3A	3A
Discharge Time (Sec)	50	90	120	150
Height (mm)	370	405	482	593
Diameter (mm)	106 ± 5	110	143	180
Discharge Throw	1.5 - 2m	1.5 - 2m	1.5 - 2m	1.5 - 2m
Discharge	95%	95%	95%	95%
Working Pressure (Bar)	15	15	15	15
Test Pressure (Bar)	35	35	35	35
Temperature Range	+ 5°C - 60°C	+ 5°C - 60°C	+ 5°C - 60°C	+ 5°C - 60°C
Bracket	Wall Bracket and marine Bracket			



APPLICATIONS

IDEAL Use factories, offices and other locations where lithium battery technologies are prominent.

Why lithium -ion batteries catch fire, let's look:

A. Manufacturing Defects

Flaws in production can cause metallic particles (impurities) to seep into the lithium-ion cell during the manufacturing process

B. Design Flaws

Compromising on the design can cause damage to the electrodes or the separator.

C. Abnormal Improper Usage

External factors like keeping the battery very close to a heat source or near a fire can cause it to explode.

D. Charger Issues

If the charger shorts or generates heat near the battery, it can do enough damage to cause failure.



A. What to do when a battery catches fire?

Concerning -Li ion battery fires and their propensity to reignite subsequent to experiencing thermal runaway, the fundamental principal is "lots of cooling". Basically, all extinguishants that aim to suffocate such a battery fire may be able to succeed suppressing the flames but will have limited ability to provide the necessary cooling.

Lithium-Ion fire extinguishing agent

Is an aqueous dispersion of chemically exfoliated It is applied to lithium battery fires as a mist, extinguishing them and preventing the propagation of the fire.

"FireChem" fire extinguisher with additives provides effective lithium battery fire protection to prevent the propagation of heat when applied as a mist. The coating also acts as a fire break. The agent particles within the mist are deposited on the surface of the burning fuel to create a film over the top of the fire.

The film instantly dries and, because the high aspect ratio platelet particles overlap and bind together, a non-flammable oxygen barrier between the fuel and the atmosphere is produced. This process has a cooling effect on the fuel source and, as the water content agent is evaporated, the platelets begin to build up and the fire is brought under control.