

FIREMARK

Technical Data Sheet

Lithium-Ion Battery Extinguisher



When **Lithium-Ion Batteries** burn they do so fiercely. The large amount of energy stored within converts to heat and it is difficult to cool even small appliances sufficiently to extinguish them.

The media in this extinguisher is a high efficiency liquid, which provides cooling to the batteries and due to its low surface tension can rapidly penetrate to extinguish burning material. Thereby putting out the fire, both in the battery itself and in the appliance as a whole, and crucially, lowering the temperature of the battery in order to halt thermal runaway.



In February 2021, 3rd Party, independent fire testing was carried out at CVTC, USA to evaluate the Lithium-Ion Battery fire fighting ability of the LB6.

Against the developed fire test protocol (as there is no standardised test protocol for this risk), the LB6 Extinguisher successfully passed the 360 watt-hours (Wh) fire test. Each battery pack stores a certain amount of energy, and this is expressed in Wh.

To put this into context, typical mobile phone, tablet and laptop batteries would be in the region of 10Wh to 60Wh, with cordless tool batteries typically ranging from 100Wh to 240Wh.

MODEL	LB/6
Capacity (litre)	6
Full Weight (kg)	10.0
Cylinder Material	Mild Steel
Extinguisher Height (mm)	429
Cylinder Diameter (mm)	160
Minimum Discharge (s)	55
Temperature Range (°c)	5°C to 60°C
Working Pressure at 20°C	12 bar
Test Pressure	30 bar
Fire Rating	27A/21B*
Approved to BS EN3	Yes
Marine Approved	No

*Please note whilst Extinguish Lithium Battery Extinguishers have been Class B fire tested it is not possible to certify this performance under BS EN3 as the fire sizes are outside of EN3 limits for publication. Our EN3 fire testing rating achieved confirms safe and very creditable performance for situations where Class B is not the primary risk