

## 50 Litre Lith-Gard Data Sheet

Sentinel Max has unveiled yet another market-leading range of products, the Lith-Gard range. BSEN3 Kitemarked approved, this range is the choice of the discerning professional, with an outstanding balance of quality, performance, and value. The range includes a 6 litre and a 50 litre unit to offer solutions for almost all situations.

- Fully CE marked
- All components **UK CA** Approved. Overall Unit **UK CA** Application in process
- Tough, corrosion-resistant finish
- All units come complete with wall mounting bracket
- Full technical and operational support
- Currently Only Battery Extinguisher range in the UK Market with a Class F Rating



### 50 Litre Lithium-Ion Battery Extinguishers

These premium 50-litre lithium-ion Battery Extinguishers are amongst the finest available today.

The superior aesthetics and its light weight make for easy handling.

50L Lithium-Ion fire extinguishers, temperature range from +5°C to +60°C, manufactured in accordance to UNI EN 1866-1 (D.M. 6.3.92), approved Marine Equipment Directive MED 2014/90/EU, certified according to the directive for pressure equipment PED 2014/68/EU. Quality Product certification guaranteed by Bureau Veritas Italia

Product Code	Capacity	Fire Rating	Dimensions mm (H x D)	Working Pressure	Temp. Range	Material	Weight
50LSPLITHST	50 Litre	A B IV	Height 1100 Diameter 560	15 bar	+5°C - +60oC	Alloy Steel	75.5 Kg

## TECHNICAL SPECIFICATIONS

FIRE RATING	A IV B
EXTINGUISHING AGENT	Lith-M 2
PROPELLANT	Dehumidified air or Nitrogen (N <sub>2</sub> ), 15 bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	50 Liters
FULL WEIGHT	~ 75,5 Kg
DIMENSIONS	Height 1100 +/-10 mm ; Width 490 +/-10 mm Depth 560 +/-10 mm
DISCHARGE TIME	~ 253,5 seconds

## Extinguisher Information

### Cylinder

- High-strength alloy steel, deep drawn, external powder painted Red RAL 3000.

### Extinguisher Agent

- Water-based with foaming additives.

### Propellant

- Dehumidified air or nitrogen (N<sub>2</sub>).

### Valve

- M. 30x1.5, brass body, levers with red painting RAL 3000.

### Use

- Class A Fires (solid materials)
- Class B Fires (flammable liquids)
- Class F Fires (cooking oils)
- Lithium-ion batteries



### Essential information when using the fire extinguisher on lithium batteries

According to tests executed with this fire extinguisher, it's possible to stop the combustion of a lithium-ion battery with a water based fire extinguisher with foam additives. It has been verified that the use of the fire extinguisher allows to lower the temperature and control any re-ignitions of the cells present inside the battery (generated by the chain reaction of the same and due to their shape inside the battery pack). The battery tested has a voltage of 25,9 V with a capacity of 196 Ah and an energy value of 5076 Wh. The fire extinguisher tested is therefore effective in containing the flames emanated from a battery with same or inferior characteristics compared to the one tested.

*\*NOTE: the test was executed on a new battery and so at full efficiency.*

### Safety Warning

*The combustion of lithium-ion batteries releases very harmful gases and fumes. Direct exposure to high concentrations of gases emanating from the combustion of lithium-ion batteries can cause serious damage to health. Lithium-ion batteries can have unpredictable phenomena during a fire, such as explosive reactions caused by the pressure of the cells inside the battery pack. it's advisable to use appropriate safety devices. The use of fire extinguishers is recommended for professional and expert staff. The use of fire extinguishers by uninformed people can lead to lower results and cause damage to involved people.*

### Disclaimer

The result of the tests performed refers exclusively to the fire extinguisher model used during the tests themselves. The fast development of lithium-ion batteries and portable fire extinguishers means that the performance achieved during the test phase is not guaranteed when using lithium-ion batteries or shutdown techniques other than those tested. It is not possible to understand where and to what extent these fire extinguishers can be installed due to the outer casing of the lithium-ion battery pack. The fire extinguishers tested are intended to help contain the principle of fire resulting from the triggering of a lithium-ion battery.

## Installation and method of use

The installation of the fire extinguisher must be performed according to the rules in force. The fire extinguisher has to be installed in areas with large spaces and free from obstacles. The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

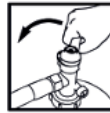
## Precautions for the use

### MODALITY OF USE

1) Follow the operative instructions reported in the marking label stamped on the body of the fire extinguisher :



- 1) UNROLL THE HOSE
- 2) REMOVE SAFETY PIN



- 3) OPEN THE VALVE



- 4) HOLD THE PISTOL, MOVE THE LEVER AND AIM THE JET AT BASE OF FIRE

#### **A) USE ON STANDARD FIRES**

- 2) Do not through the fire extinguisher on to the direct flames.
- 3) This fire extinguisher is a pressurized vessel and must not be pierced, dented or subjected to external damage.
- 4) Do not direct the jet on the people.

#### **B) USE ON BATTERIES FIRES**



- 2) In case of use of the fire extinguisher on fires from lithium-ion batteries, it's advisable to keep the security gap during dispensing.
- 3) Do not expose yourself directly to the flames during dispensing.
- 4) Dispense the extinguishing with regular intervals. Do not dispense it in a single intervention.
- 5) Let the extinguishing penetrate inside the casing containing the battery pack.
- 6) This fire extinguisher is a pressure container and must not be drilled, dented or submitted to external alterations.
- 7) Don't aim the jet at people.