

**Abstract.** The catastrophic consequences of cascading thermal runaway events on lithium-ion battery (LIB) packs have been well recognised and studied. In underground coal mining occupations, the design enclosure for LIB packs is generally constructed to be explosion-proof (IEC60079.1 Standard).

Our certified battery system fire protection box is the robust and reliable tool for securing damaged, defective or quarantined batteries on public roads and within buildings. Eliminate possible risks when separating, transporting and storing lithium batteries and create optimum, and absolutely safe, working conditions for both people and machines.

The LithiumSafe Battery Box, for safely storing, charging and transporting Lithium ion batteries. The most intensively tested battery fire containment solution on the market, engineered to fight all thermal runaway problems

The LithiumSafe(TM) Battery Box is designed for safely storing, charging and transporting lithium ion batteries. The most intensively tested battery fire containment solution on the market, engineered to fight all thermal runaway problems: Containment of fire and explosion. Thermally insulating extremely high temperatures. Filtration of toxic fumes.

The LithiumSafe Battery Bag is a fire containment bag designed for spare lithium batteries and portable electronic devices (PED) carrying them. The unique configuration of the Lithium safety bag consists of high temperature insulation & fire resisting materials that are able to withstand the explosive release of energy and cell combustion, as a ...

The MSK-BS058 Explosion-Proof Steel Box provides a safe enclosure chamber for over-charging and forced-discharging of all kinds of battery cells required by the UN38.3 standard (38.3.4.7 & 38.3.4.8), as well as for MTI high-pressure vessel.

AOT-MSK-TE903 double explosion-proof steel box is used for battery safety testing, overcharge and forced discharge of various battery unit tests provide a safe enclosure. A total of 4 feedthrough ports in two separate compartments allow simultaneous testing of multiple cells.

The Lithium Safety Store(TM) has been designed to prevent an uncontrolled fire caused by the thermal runaway during charging, or from damaged, degraded, old, or poorly manufactured lithium batteries, whilst also providing a safe space to store other hazardous materials such as fuel, flares, gas canisters and other combustible liquids and materials.

Web: <https://www.sbrofinancial.co.za>



# Lithium battery explosion proof box

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