

How to handle lithium-ion
batteries safely

*Strain*Lock

The storage cabinet for lithium-ion batteries
with an integrated filter system



Lithium-ion batteries. Safe?

Damaged lithium-ion batteries cause pressure surges that may also involve explosions. The gases that are created are highly toxic. The risk scenario has changed fundamentally to the previous hazardous goods storage solutions. The risk of fire is no longer limited to the outside of the cabinet, it acts inside the cabinet and is, as described, accompanied by flames, explosions and toxic gases.



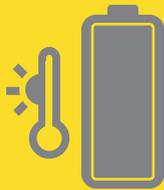
***Rapid increase
in incidents with
lithium-ion batteries***

Causes of damage



mechanical damage

Battery falls onto the floor, E-bike topples over



thermal impact

Direct sunlight on smartphone



aging & creation of dendrites

Deep discharging, chemical changes



electrical impact

Overcharging, deep discharging



Damage (inner short circuit) to a lithium-ion battery in a test environment

The StrainLock storage cabinet is the solution.

Stöbich technology has the solution for safe storage of lithium-ion batteries. It is used everywhere where employees work with potentially faulty battery systems. The storage cabinet has a special filter that holds back toxic gases as well as the flames. An integrated thermal management system ensures that there is no critical increase in the temperature of the outer walls. This prevents contamination around the storage cabinet in case the batteries inside are damaged.

- +** Targeted discharge and prior filtering of the toxic gases
- +** Mechanical stability is also ensured even at very high pressure levels
- +** Almost all solids are filtered

***Safety of
persons
and assets***



Special new development

Coordinated to the special risks of battery damage.

Gas filter system

No escaping sparks or flames

Pressure-resistant design

No escaping fluids and solids

Mechanical resistance

Also for critical and faulty lithium-ion batteries

Tested safety system

Secure and reliable lock



***Protection against explosions
Protection against leaking gases***

*Strain*Lock

The combined storage and charging cabinet for lithium-ion batteries



-  Also available with a charging function as an option
-  The power circuit of each drawer is equipped with its own fuse
-  The colour can be chosen optionally
-  The individual drawers lock in the event of damage



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