



S 4 F E

Managing the risks associated with **Lithium-Ion batteries**

*The only certified locker solution in compliance
with the strictest fire safety regulations.*

Meet S4FE

Lithium-Ion batteries have become ubiquitous in our daily lives, found in everything from smartphones to electric vehicles. However, as their use becomes more widespread, so too does the risk to companies and public spaces.

Lithium-Ion batteries have the potential to ignite spontaneously under certain conditions and are very difficult to extinguish.



The locker for today and tomorrow

The increasing popularity of e-mobility, including electric vehicles, scooters, bikes, and even skateboards, is well-known. A comprehensive charging infrastructure, both in private, public, and professional settings, is essential to maintain a sustainable and emission-free transportation system. Additionally, the widespread use of Lithium-Ion batteries in communication devices such as smartphones and laptops only adds to the potential hazard.

The presence of Lithium-Ion batteries on a property presents significant risks, and insurance companies may be hesitant to provide coverage for fires caused by these batteries.

Our recommendation is to shut the door on these risks by choosing a fire-safe certified storage solution with integrated charging infrastructure.



WWW.S4FE.BE



~~Time to quantify the risks!~~

In the event of a defect, impact, or degradation that triggers a Lithium-Ion battery fire, the release of highly toxic substances, such as lithium hydroxide, is possible. The fire can also rapidly reach temperatures exceeding 1000°C, causing it to spread much more quickly compared to a conventional fire. Furthermore, the presence of multiple fuel cells within a Lithium-Ion battery increases the likelihood of reignition, making it impossible to fully extinguish the fire with a standard fire extinguisher. In severe cases, a Lithium-Ion battery fire can even result in an explosion.

~~+45~~

In 2022, there were over 45 recorded fires caused by e-bike batteries in Flanders and the Netherlands alone.

~~18 x 3~~

In New York, the number of lithium fires almost tripled in one year, from 18 to 56.

~~66 + 5~~

Due to 66 reported injuries and 5 fatalities resulting from e-bike fires in 2022, New York is considering a ban on e-bikes in over 177,000 residential units.

~~340 / 16~~

From 2006 to 2021, the Federal Aviation Administration (FAA) recorded 340 incidents of smoking or burning Lithium-Ion batteries, averaging over one occurrence per month on flights.

Prevent battery fires through S4FE

These days, you'll find more electric bikes than regular ones in corporate parking lots. To mitigate the dangers of thermal runaway, Mobile Locker has developed S4FE, a patented locker system for secure storage and simultaneous charging of e-bike batteries. This solution promotes environmentally friendly transportation while ensuring the safety of business parks and public spaces.

- ✓ **Immediate fire detection** with multiple smoke detectors within each **cabinet**.
- ✓ Real-time **connection to the fire alarm centre** of the building
- ✓ Immediate **dispersion of unique extinguishing aerosols** in the locker cabinet
- ✓ At least 30 minutes **guarantee of fire control**



WWW.S4FE.BE

Contact us

Nijverheidsstraat 94,
2160 Wommelgem
Belgium

+32 3 284 93 03

