

# LITHIUM BATTERY FIRES



Clearly the MAUS Stixx  
PRO works against fire  
in lithium batteries.

# LITHIUM BATTERY FIRE TEST

The MAUS aerosol stops the chemical reactions taking place in a fire by neutralizing hydrogen, oxygen and hydroxy radicals in the flame. The particles also absorb the heat from the flame which is crucial when it comes to extinguishing lithium battery fires. The prolonged floating time may contribute to an increased protection against re-ignition. This is the theory that we put to the test at Dafgård's facilities in Sweden.



1. A lithium battery was placed at the bottom of the cabinet and the MAUS unit/units were placed at the top.



2. Once the battery was on fire it activated the HDC cable that activated the MAUS unit in the ceiling.



3. The active MAUS aerosol fills the space and stops the fire instantly and the temperature drops to 40°C in seconds.



4. After 5 minutes it was safe to open the cabinet and let the non-toxic potassium aerosol out.

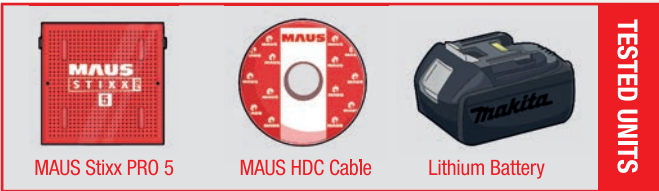


Berndt Hövler Fire & Rescue Officer, Dafgård's Sweden

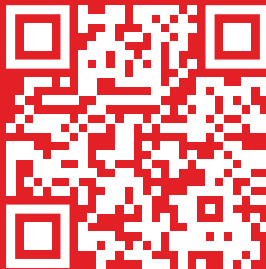


## Clearly the MAUS Stixx PRO works against fires in lithium batteries.

“We did two tests. Both tests gave a passing result. Clearly, the MAUS Stixx PRO also works against fire in lithium batteries. Dimensioning for cavities in cabinets gives increased effect and minimizes the risk of re-ignition.”



SPECIFICATIONS	TEST 1	TEST 2
MAUS Stixx PRO 5 units	2	1
Lithium Battery:	Makita 18V 5Ah	Makita 18V 5Ah
Cabinet space:	0.1 m <sup>3</sup>	0.1 m <sup>3</sup>
Activation time:	6 s.	18 s.
Fire extinguished after activation:	2 s.	2 s.
Battery cell explosion.	No	Yes
1st Battery cell explosion after.	No	86 s.
2nd Battery cell explosion after.	No	147 s.
3rd Battery cell explosion after.	No	155 s.
Final extinguishing time:	2 s.	162 s.
Outside temperature:	5°C	5°C
Wind:	6 m/s	6 m/s



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