NEW

CEMO
for safe storage

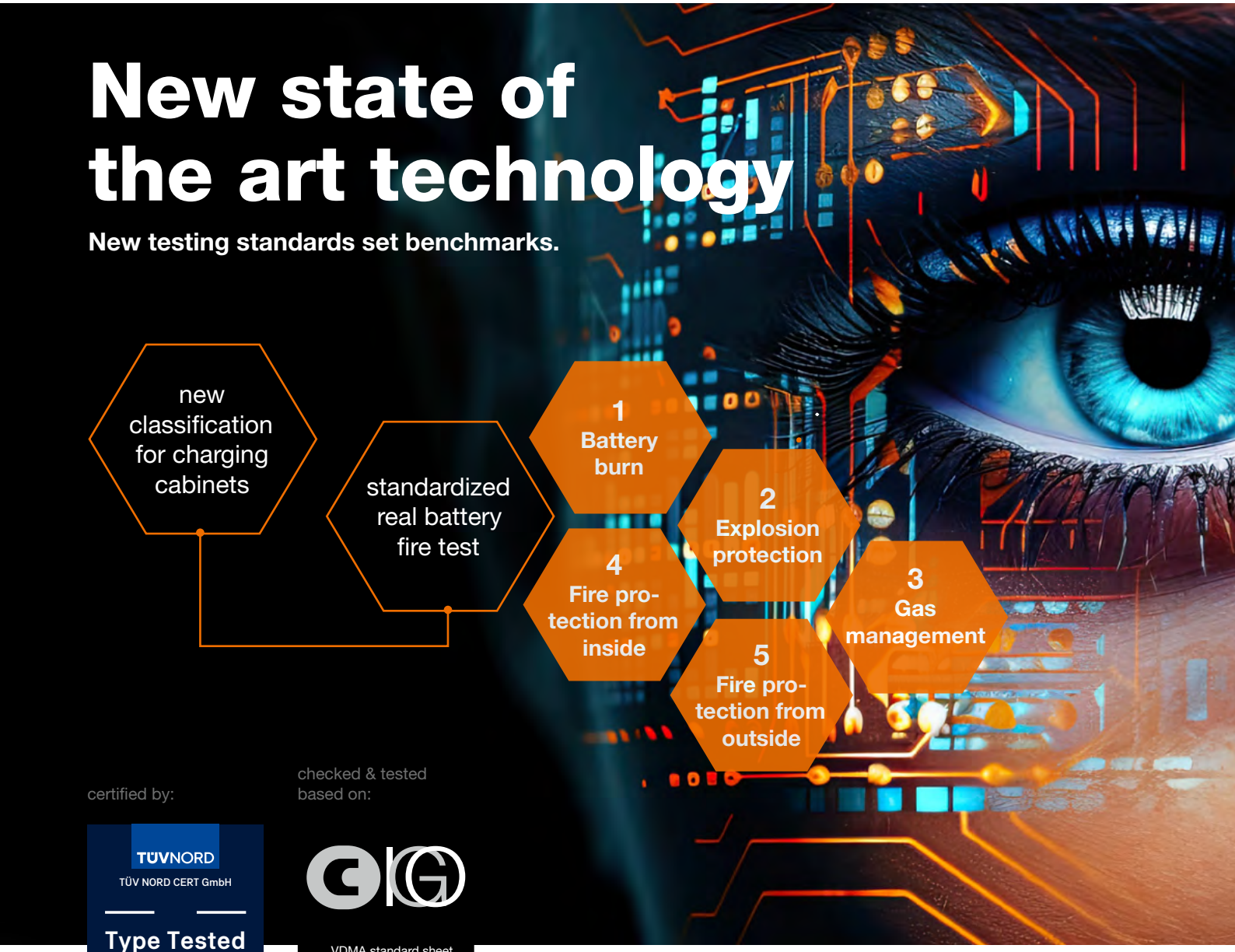
BATTERYSAFETY

lockEX inside

CEMO safety concept „Made in Germany“
Battery charging and storage cabinets with explosion protection

New state of the art technology

New testing standards set benchmarks.



certified by:

TÜVNORD
TÜV NORD CERT GmbH
Type Tested
tuev-nord.de

checked & tested based on:

VDMA standard sheet 24994:2024-08

Standardized battery fire test in the safety cabinet is now state of the art

The new standards no longer only test against fire from the outside, but also provide for a standardized battery fire test on the inside. The standardized battery fire test is to be carried out with Euro boxes filled with battery cells, depending on whether the individual areas or cabinet levels are fireproofed against each other or not. Conventionally classified safety cabinets with F30, 60 or 90 with only external test flames are therefore no longer state of the art.

The most important point: the external fire test is optional. In contrast, the standardized battery band test must be passed.

This shows that a corresponding test with real batteries is more relevant than the classic fire test (from the outside).

The safety specialists at CEMO recognized early on in product development that gas development and the resulting explosions shift the protection target for battery charging cabinets. It is now clear that explosion protection is more important than only fire protection. With the patent-protected lockEX system, the new state of the art was successfully tested.

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CEMO
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How to find the right product
for your application

Digital catalog at www.cemo-group.com/catalogue

	Tool cabinet	**PROline** 6/20, 12/20	Battery flame protection cabinet **FMplus** Size US	Battery storage and charging cabinet **lockEX** 8/5, 8/10
				
Safety class	Simple sheet steel cabinet Protection against unauthorised access	+ Battery safety cabinet	++ Double-walled steel cabinet	+++ Fire-resistant fire prevention cabinet
Capacity class			up to 1,1 kWh	up to 4,6 kWh
Explosion protection (Battery fire test)			✓	✓
Fire protection from inside			✓	✓
Fire protection from outside Minutes 0/30/60/90		90		30
BBT Index Battery fire suitability		1	2	3
Test standard		DIN EN14470-1	TÜV NORD	TÜV NORD + VDMA[1]

[1] VDMA Standard sheet 24994:2024-08

New test standards set benchmarks.

Battery charging cabinet	Order no.	Classification	Test standard
8/5 Premium Plus	11896, 11897	Inspected and tested **"I/O30"** in accordance with VDMA standard sheet 24994:2024-08[2]	VDMA Standard sheet 24994:2024-08
8/5 Basic Premium	11892, 11893, 11894, 11895	Certified according to TÜV Nord test program for Storage devices for lithium-ion batteries M02/22	TÜV Nord test program for storage devices for lithium-ion batteries M02/22
8/10 Premium Plus	11903, 11904, 11725, 11728	Inspected and tested "**I**" in accordance with VDMA standard sheet 24994:2024-08[3] Tested fire resistance from the outside„**G30**" according to DIN EN 14470-2	VDMA Standard sheet 24994:2024-08 DIN EN 14470-2
8/10 Basic Premium	11899, 11900, 11723, 11726, 11901, 11902, 11724, 11727	Certified according to TÜV Nord test program for storage devices for lithium-ion batteries M02/22	TÜV Nord test program for storage devices for lithium-ion batteries M02/22
FMplus US Charging cabinet	11877	Certified according to TÜV Nord test program for storage devices for lithium-ion batteries M02/22	TÜV Nord test program for storage devices for lithium-ion batteries M02/22

[2] Deviating battery cell type NCA (INR18650-35E)
[3] Deviating battery cell type NCA (INR21700-50E)

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