

EVERY MISSION STARTS WITH A TEST

Reliable simulation chambers for
standard-compliant material testing



Where materials, components, and systems are required to perform reliably, BINDER creates the conditions for reliable testing. For decades, we have been developing simulation solutions “Made in Germany” that precisely replicate real-world environments – reproducible, compliant, and precise.

In the defence sector, this means test processes that not only perform, but remain traceable, documented, and secure over time. From initial concept to ongoing operation, solutions are built to adapt to requirements – not the other way around.

Why BINDER? Because safety begins where nothing is left to chance.

Technical consulting and engineering

Support in selecting, parameterising, and designing standard-compliant test profiles.

Comprehensive documentation and compliance

Complete certificates, technical documentation, and standard-related test documents included.

Customization

A specialised BINDER team develops customer-specific adaptations based on proven systems.

Certified service technicians

Qualified service technicians ensure professional installation, maintenance, and repair on site.



CLIMATE TEST CHAMBERS

**Constant and dynamic climate testing
under defined environmental conditions**

Temperature range: -70°C to 180°C

Humidity range: 10 % – 98 % RH

Interior volume: 56 – 1,600 L



WALK-IN CLIMATE CHAMBERS

Environmental simulation for large components, assemblies, and complete systems

Temperature range*: 10°C to 50°C

Humidity range: 20 % – 90 % RH

Floor space*: up to 22 m²

* Customised sizes and extended temperature range from -20°C upon request.



Our environmental test chambers support the performance of standard-compliant tests according to MIL-STD, DEF STAN, STANAG standards.



BATTERY TEST CHAMBERS

Safe testing environments for cells, modules or battery packs

Temperature range: -70°C to 180°C

Humidity range: 10 % – 98 % RH

Interior volume: 56 – 1,600 L

Equipment options and safety packages based on EUCAR hazard levels.



TEMPERATURE TEST CHAMBERS

Drying, heat treatment, and thermal storage under stable temperature conditions

Temperature range: up to 300°C

Controller: timer or program functions

Interior volume: 56 – 720 L

More than just a chamber: Customised testing solutions

Not every test task can be mapped with a standard solution. BINDER develops customer-specific test solutions based on proven simulation chambers when specialised test requirements demand it.

Typical customisation options:

- Special access ports and reinforcements
- Integration of customer-specific components
- Extended controller functions

BINDER service solutions for reliable, compliant operation



Installation & Commissioning



Preventive Maintenance



Technical Support



Calibration

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