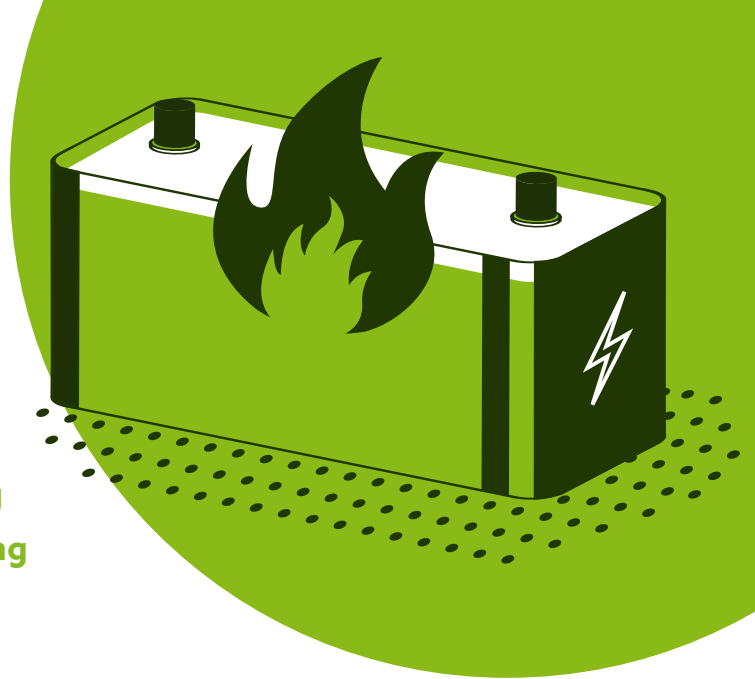


AZL Joint Partner Project

# Thermal Runaway Testing for Battery Casings

Benchmarking systems for high-gradient heating and hot particle blasting for fire testing of housing and functional materials for EV battery casings



Excellence in Lightweight Production

Battery Casings for electrical vehicles, both for ground and air transportation, offer huge economical potential. All kinds of materials, steel, aluminum and composites are used to manufacture components of the battery casings. For all components, independent if used in the surrounding box/lid structure or as functional elements within the casing, the characteristic behaviour under thermal runaway conditions are essential criteria to test and to comply with legal and OEM-standards. AZL is renown for developing and operating test setups to provide evidence on the suitability of materials for application in battery casings.

## What will you get?

Joint definition of test scenarios of relevance available at the market and expert assesment of testing results by implementation and comparison. Opportunity to co-define requirements for improving test procedures to further increase representativity for real thermal runaway events including testing results of your materials and comparison with other materials.

- **WP1:** Analysis of currently available test setups, providers and knowledge regarding testing of materials for structural and non-structural components of battery casings
- **WP2:** Implementation of relevant test setups of interest and benchmarking of test results.
- **WP3:** Development and implementation of improved systems for high-gradient heating and hot particle blasting

## Follow-Up to this Consortium



## Open to join

**Project Start: July 15<sup>th</sup> 2025**

**Duration: approx. 9 months**



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