

Fire Protection - Application relevant Fire Test Procedure for Composites

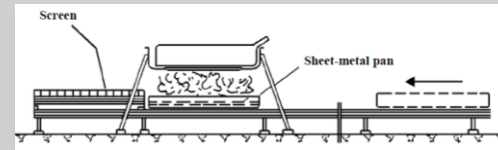
Concept Study: Multi-material Battery Casing



1. Bottom Impact Protection of Battery Casings

2. Application relevant fire test procedure

3. Demonstrator(s) Summer 2022



The Objective:

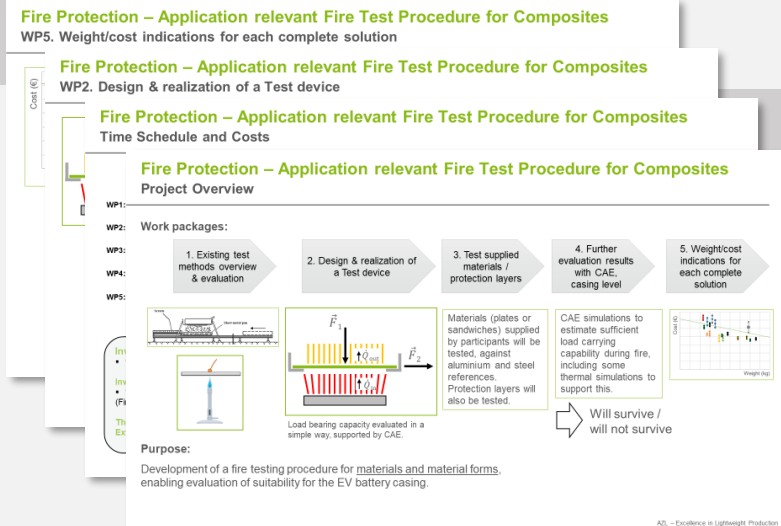
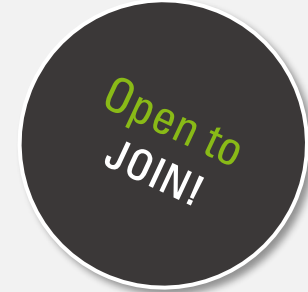
External fire and thermal runaway are two main areas with high importance in Battery Casings. On basis of findings during the finished project “Multi-material Battery Casing”, conducted with 46 industrial partners, this project aims to create comparable data between different material solutions. Starting with building up a test method, different materials and combinations of materials are tested. The derived data is used to indicate amounts of materials needed for fire protection, resulting in a comparative evaluation on cost and weight.

Our Content:

- Overview of existing test methods & evaluation
- Design & realization of a test device
- Material & protection layer tests
- CAE simulations during fire
- Evaluation based on tests and simulation results
- Weight & cost indication of possible material combinations

Your Benefits:

- Realization of relevant fire test procedure especially for EV battery casings
- Comparison of different materials and combinations
- Simulations on load carrying capability during fire
- Weight / cost ratio of different solutions
- Cost sharing on complex test scenario while getting full results
- Networking across the common subject



Participation fee (AZL Partner and former project participants)	17,250.00 €
Participation fee (external company)	19,500.00 €
Number of participants	Min. 10 companies
Duration	7 months

Please contact for information and individual offer:

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