

EV Battery Casing Consultancy



Together we analyze the fast-growing market for EV battery casings and identify opportunities for your materials, products and technologies

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Our Offer

Together with you, we look for attractive ways to use your materials, products or technologies in a battery casing.

During the analysis, we consider all relevant structural and safety requirements.

We then compare the results with the state of the art and other competing solutions in terms of cost, weight and environmental impact.

Your Benefits

- Learn which characteristics of materials and processes are required for the production of EV battery casings
- Find out which measures in the development of EV battery casings can achieve the highest success potential for your business development

Our Expertise

As a one-stop shop for market and technology know-how, the AZL brings together experts and decision makers from academia and industry of all positions in the value chain, to support business and technology development. Located in the heart of one of the leading high-tech ecosystems, RWTH Aachen University, AZL assists in the development, benchmarking and improvement of composite-based multi-material technologies. In addition, the AZL Partnership frameworks offer access to an open innovation network of more than 80 international companies to find solutions for industrial implementation and establishment of lightweight technologies in the market.

Our Assets related to Battery Casings

AZL conducted several projects, including a consortium project with 46 industrial companies along the complete value chain, investigating:

- Worldwide standards and relevant specifications
- 40+ state of the art casings and concepts
- Analyzed various fire protection and EMI shielding solutions
- AZL created 20 multi-material concept designs with different production technology solutions
- All concepts were CAE analyzed and optimized for all relevant mechanical and crash/intrusion load cases
- Production chains were modelled in detail and cost analyzed and benchmarked against state of the art metal casings



Warden Schijve
+49 241 475 735 - 17
+49 177 5129780
warden.schijve@
azl-aachen-gmbh.de