

Product News

© ASM International 2021

Novelis Develops World's First Aluminum Sheet Battery Enclosure

Novelis has worked with industry partners to develop the world's first aluminum sheet battery enclosure. When compared to aluminum extrusion and casting-intense designs, it is the most cost-effective solution for mass production vehicles. The enclosure accommodates all battery cell types and is designed particularly for battery electric vehicles with larger power packs such as pick-up trucks, sport utility vehicles, and crossovers.



Novelis proposes aluminum sheet battery enclosure

Utilizing highly-formable alloys, the battery enclosure gives automakers the ability to achieve deep drawn, complex shapes tailored to meet requirements of specific vehicle designs and joining processes.

The lightweight, high-strength material can help extend range, allowing vehicles to travel up to 10% further on a single charge. Acknowledging safety as its top priority, Novelis conducted extensive simulations and analysis of the enclosure, confirming its ability to protect batteries from road debris and vehicle crashes.

The battery enclosure was developed in Novelis' recently launched customer solution centers, which brings research and technical platforms, operations, and commercial development together to increase collaboration and innovation between the company and its industry partners.

It is the center's first project and sets a stage for the conception and development of new aluminum solutions that will drive the future of design and innovation across many industries.

For more information: <https://novelis.com>

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.