

Are EV battery enclosures steel or mixed-material?

Some OEMs already have begun shifting to steel or mixed-material designs for their battery enclosures, Afseth acknowledged. Tesla is a prime example. The EV maker has reduced the amount of aluminum in the battery enclosure for the Model 3 and Model Y compared to what was used in its S and X models, according to Afseth.

Why are EV battery enclosures made out of aluminum?

Suppliers of composites and plastics are undeterred by aluminum's current dominance in EV battery enclosures. They're developing new formulations and processes aimed at matching or exceeding the performance and cost-competitiveness of the light metal. "Current battery packs use a lot of metal that is not optimized.

Are aluminum battery enclosures a good choice?

Aluminum battery enclosures or other platform parts typically provide a weight savings of 40% compared to an equivalent steel design. The most-used and best-suited alloys for battery enclosures are of the 6000-series Al-Si-Mg-Cu family, Afseth shared, noting that these alloys are "very well compatible" with end-of-life recycling.

What material is used for a battery enclosure?

The majority of long-range BEVs in production use aluminum as the main material for the battery enclosure. (Constellium) Mass reduction is the main driver behind aluminum battery enclosures, but thermal requirements prove challenging for the lightweight material.

Is Gigafactory's upcoming structural battery pack steel or aluminum?

"Statements made public about the upcoming structural battery pack to be used first in Berlin [Gigafactory] also mention that the upper and lower covers are steel, not aluminum," he added.

Are thermoplastics better than aluminum for EV battery boxes?

Two more characteristics make thermoplastics competitive with aluminum for EV battery boxes, Nagwanshi said. One is their anisotropic thermal conductivity -- plastics' ability to simultaneously conduct/dissipate heat in one direction, while providing insulation in other directions.

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However, because aluminum can be easily alloyed with many different elements, there are over 530 registered aluminum alloys! Each grade distinctly emphasizes certain sought-after characteristics - like corrosion resistance, strength, ductility, or electrical conductivity - so the use of aluminum has expanded into practically every industry.

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