

Based on AlSi10MnMg die-cast alloy material, in view of mechanical performance requirements of new energy vehicle battery covers, a general method to solve this problem is proposed, namely, rational selection of alloy composition content, optimized design of die-casting molds, and correct configuration of artificial aging schemes. Results show ...

The utility model discloses an aluminium die casting die is used in processing of new forms of energy battery package installing support, including bottom plate, riser and No. two...

Battery end plates play a crucial role in the performance and safety of the battery system in new energy vehicles. 1.2 Importance of Aluminium Alloy Battery End Plates Aluminium alloy is widely used in battery end plates because of its excellent properties such as light weight, high strength, good corrosion resistance, and good thermal conductivity.

The utility model discloses a new energy automobile battery shell die-casting die, which belongs to the technical field of die-casting dies and comprises a fixed plate, wherein...

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In recent years, with the rapid development of new energy vehicles, the demand for high-quality aluminium alloy battery end plates has increased significantly. Low pressure casting is a widely used method for manufacturing these end plates due to its advantages such as good surface quality, dense microstructure, and excellent mechanical ...

High-pressure die casting dies are produced in most cases by conventional subtractive manufacturing processes. In this case, a massive design of the die usually ensures high stability during the casting process. However, at the same time, it leads to low flexibility in casting production and high material costs. The basic approach in the present work is to ...

In recent years, with the rapid development of new energy vehicles, the demand for high-quality aluminium alloy battery end plates has increased significantly. Low pressure ...

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New Energy Battery End Plate Die Casting

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Due to the die casting machine clamping force size needs to cover the projected area of the pressed parts, so the large body structural parts such as the rear floor, front cabin frame, etc. need to clamp force of at least 60 000 kN die casting ...

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New Energy Vehicle Battery End Plate Die Casting Customized Products: CNC machining process, mold customization, airtightness testing, three coordinates testing, infiltration ...

KH??? ????? Battery Pack? End Plate ? Spigot ??~??? ?????, ?? ?? ??? ??? ????. ????. ??? CELL? ?·??????? ????? ?? ??? End Plate? ??? Die-Casting, Insert Die-Casting ??? ?????? ?? ?? ????. ????. ????? ??? CELL?? ...

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In this paper, by optimizing the low-pressure casting process parameters of the battery end plate, the smallest volume value of shrinkage porosity and the secondary dendrite spacing, as well as the shortest solidification time, are obtained. Therefore, the "smaller is better" characteristic is adopted, and the calculation formula is as follows:

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