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Global Aluminum Alloy for Automotive Battery Housing Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G2CBC2F20F81EN.html
Date: May 2026
Pages: 99
Price: US$ 3,480.00 (Single User License)
ID: G2CBC2F20F81EN

Abstracts

According to our (Global Info Research) latest study, the global Aluminum Alloy for Automotive Battery Housing market size was valued at US$ 7612 million in 2025 and is forecast to a readjusted size of US$ 15591 million by 2032 with a CAGR of 10.7% during review period.

Aluminum Alloy for Automotive Battery Housing is a lightweight structural material specifically engineered for electric vehicle battery enclosures, offering optimized strength, impact resistance, corrosion protection, and thermal stability to ensure safety and durability under demanding operating conditions. The capacity utilization rate in 2025 was 80%, and the industry?s average gross margin was about 15%. In 2025, production was 4.11 million tons and the average price was USD 1,800 per ton. Upstream, key inputs include electrolytic aluminum, high-purity aluminum ingots, and aluminum-magnesium alloy additives supplied by companies such as Alcoa, Rio Tinto, China Hongqiao, and CHALCO. The midstream segment involves alloy melting, casting, rolling or extrusion, heat treatment, and precision machining processes that determine mechanical strength, formability, and safety performance. Downstream demand is driven by passenger and commercial vehicle manufacturers, with representative customers including Tesla, Ford, Volkswagen, General Motors, BYD, SAIC Motor, and Geely.

As the global automotive industry shifts toward electrification, the market for aluminum alloy in automotive battery housings is facing significant opportunities. Due to its unique properties?lightweight, high strength, and excellent thermal conductivity?aluminum alloy has become the preferred material for electric vehicle battery casings. Using this material can significantly reduce vehicle weight, effectively increasing the EV?s range

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and energy efficiency.

This report is a detailed and comprehensive analysis for global Aluminum Alloy for Automotive Battery Housing market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Aluminum Alloy for Automotive Battery Housing market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Aluminum Alloy for Automotive Battery Housing market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Aluminum Alloy for Automotive Battery Housing market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Aluminum Alloy for Automotive Battery Housing market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Aluminum Alloy for Automotive Battery Housing

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Aluminum Alloy for Automotive Battery Housing market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Norsk Hydro, Shanghai Huafon Aluminium Corporation, Chalco, Constellium, UACJ, Sakai aluminium Corporation, Hindalco Industries, Lotte Aluminum, Henan Mingtai Al.Industrial, Yong Jie New Material, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Aluminum Alloy for Automotive Battery Housing market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Aluminum Alloy 5052

Aluminum Alloy 6061

Others

Market segment by Process

CAB-compatible Clad Material

Vacuum Brazing Material

Others

Market segment by Coating Side

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One-side Clad

Two-side Clad

Others

Market segment by Application

Passenger Cars

Commercial Vehicle

Major players covered

Norsk Hydro

Shanghai Huafon Aluminium Corporation

Chalco

Constellium

UACJ

Sakai aluminium Corporation

Hindalco Industries

Lotte Aluminum

Henan Mingtai Al.Industrial

Yong Jie New Material

Market segment by region, regional analysis covers

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North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Aluminum Alloy for Automotive Battery Housing product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aluminum Alloy for Automotive Battery Housing, with price, sales quantity, revenue, and global market share of Aluminum Alloy for Automotive Battery Housing from 2021 to 2026.

Chapter 3, the Aluminum Alloy for Automotive Battery Housing competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aluminum Alloy for Automotive Battery Housing breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Aluminum Alloy for Automotive Battery Housing market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

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Chapter 13, the key raw materials and key suppliers, and industry chain of Aluminum Alloy for Automotive Battery Housing.

Chapter 14 and 15, to describe Aluminum Alloy for Automotive Battery Housing sales channel, distributors, customers, research findings and conclusion.

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Table 126. Aluminum Alloy for Automotive Battery Housing Typical Customers

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