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Global Cooling Aluminum for Power Battery Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Cooling Aluminum for Power Battery 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.

Cooling Aluminum for Power Battery is a specialized aluminum material designed for thermal management in power battery systems, offering high thermal conductivity, corrosion resistance, and structural stability to efficiently dissipate heat and ensure safe and stable operation under high-load 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 thermal conductivity, structural strength, and reliability. Downstream demand is driven by passenger and commercial vehicle manufacturers, with representative customers including Tesla, Ford, Volkswagen, General Motors, BYD, SAIC Motor, and Geely.

Cooling Aluminum for Power Battery is increasingly shaped by the transition toward high-energy-density batteries and integrated thermal management architectures. As battery systems adopt larger formats and higher charging rates, heat flux becomes more concentrated, requiring materials that can deliver consistent thermal conductivity and dimensional stability under cyclic stress. In passenger vehicles, the shift toward integrated battery packs and structural battery designs is pushing aluminum materials to

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meet stricter requirements in formability and joining compatibility. In commercial vehicles, continuous operation and higher load profiles further amplify the need for durable and efficient cooling solutions. Meanwhile, the expansion of fast-charging networks raises thermal management complexity, reinforcing the importance of material reliability. Cost pressure remains a key constraint due to aluminum price fluctuations and competition in mid-range products. Companies that optimize alloy systems, enhance process precision, and participate early in platform design are better positioned to secure higher value applications and improve profitability resilience.

This report is a detailed and comprehensive analysis for global Cooling Aluminum for Power Battery 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 Cooling Aluminum for Power Battery market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

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

Global Cooling Aluminum for Power Battery 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 Cooling Aluminum for Power Battery 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 Cooling Aluminum for Power Battery

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cooling Aluminum for Power Battery 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

Cooling Aluminum for Power Battery 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

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Others

Market segment by Coating Side

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

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Yong Jie New Material

Market segment by region, regional analysis covers

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 Cooling Aluminum for Power Battery product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Cooling Aluminum for Power Battery 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

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Cooling Aluminum for Power Battery 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.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cooling Aluminum for Power Battery.

Chapter 14 and 15, to describe Cooling Aluminum for Power Battery sales channel, distributors, customers, research findings and conclusion.

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