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Global Cooling Aluminum for Power Battery Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G7E6D2F60F89EN.html
Date: May 2026
Pages: 109
Price: US$ 4,480.00 (Single User License)
ID: G7E6D2F60F89EN

Abstracts

The global Cooling Aluminum for Power Battery market size is expected to reach $ 15591 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

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 meet stricter requirements in formability and joining compatibility. In commercial vehicles, continuous operation and higher load profiles further amplify the need for

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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 studies the global Cooling Aluminum for Power Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cooling Aluminum for Power Battery and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cooling Aluminum for Power Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cooling Aluminum for Power Battery total production and demand, 2021-2032, (Tons)
Global Cooling Aluminum for Power Battery total production value, 2021-2032, (USD Million)
Global Cooling Aluminum for Power Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Cooling Aluminum for Power Battery consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Cooling Aluminum for Power Battery domestic production, consumption, key domestic manufacturers and share
Global Cooling Aluminum for Power Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Cooling Aluminum for Power Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Cooling Aluminum for Power Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Cooling Aluminum for Power Battery market based on the following parameters - company overview, production, value, 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,

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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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cooling Aluminum for Power Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Cooling Aluminum for Power Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cooling Aluminum for Power Battery Market, Segmentation by Type:

Aluminum Alloy 5052

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Aluminum Alloy 6061

Others

Global Cooling Aluminum for Power Battery Market, Segmentation by Process:

CAB-compatible Clad Material

Vacuum Brazing Material

Others

Global Cooling Aluminum for Power Battery Market, Segmentation by Coating Side:

One-side Clad

Two-side Clad

Others

Global Cooling Aluminum for Power Battery Market, Segmentation by Application:

Passenger Cars

Commercial Vehicle

Companies Profiled:

Norsk Hydro

Shanghai Huafon Aluminium Corporation

Chalco

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Constellium

UACJ

Sakai aluminium Corporation

Hindalco Industries

Lotte Aluminum

Henan Mingtai Al.Industrial

Yong Jie New Material

Key Questions Answered:

1. How big is the global Cooling Aluminum for Power Battery market?
2. What is the demand of the global Cooling Aluminum for Power Battery market?
3. What is the year over year growth of the global Cooling Aluminum for Power Battery market?
4. What is the production and production value of the global Cooling Aluminum for Power Battery market?
5. Who are the key producers in the global Cooling Aluminum for Power Battery market?
6. What are the growth factors driving the market demand?

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