

# Global Aluminum for Cold Plate 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 Aluminum for Cold Plate market size was valued at US\$ 2254 million in 2025 and is forecast to a readjusted size of US\$ 4526 million by 2032 with a CAGR of 10.5% during review period.

Aluminum for Cold Plate is a high-performance aluminum material engineered for thermal management in electric vehicle and stationary energy storage battery systems, providing optimized heat transfer, corrosion resistance, and mechanical stability to ensure safe and efficient cooling under demanding operational conditions. The capacity utilization rate in 2025 was 80%, and the industry's average gross margin was about 18%. In 2025, production was 1.21 million tons and the average price was USD 1,810 per ton. Upstream, key inputs include electrolytic aluminum, high-purity aluminum ingots, and aluminum-magnesium alloy additives, with representative suppliers such as Alcoa, Rio Tinto, China Hongqiao, and CHALCO. The midstream segment covers alloy melting, rolling, surface finishing, and precision processing that determine thermal performance, mechanical strength, and corrosion resistance. Downstream applications are concentrated in power battery and energy storage systems, with representative customers including CATL, BYD, Tesla, LG Energy Solution, and Contemporary Amperex Technology Co., where material quality and processing precision directly impact system reliability and efficiency.

Aluminum for Cold Plate plays a pivotal role in thermal management for electric vehicle and energy storage battery systems, where effective heat dissipation is critical to safety, efficiency, and longevity. As battery energy densities rise and fast-charging technologies become more prevalent, materials that combine high thermal conductivity, mechanical stability, and corrosion resistance are increasingly essential. OEMs and

battery manufacturers focus on suppliers that can provide consistent material quality, precise thickness control, and reliable processing to meet stringent thermal performance requirements. Advances in alloy composition, surface treatments, and precision rolling allow for better integration of cooling plates within compact battery modules, supporting high-power applications while maintaining structural integrity. Additionally, as energy storage systems expand in renewable energy, grid storage, and commercial applications, scalable, durable, and thermally efficient aluminum solutions are becoming key differentiators. The ability to balance thermal performance with manufacturability and cost considerations remains central to supplier competitiveness and long-term adoption.

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

Global Aluminum for Cold Plate 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 for Cold Plate 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 for Cold Plate 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 for Cold Plate

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 Aluminum for Cold Plate 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 for Cold Plate 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

Rolled Sheet

Extruded Profile

Others

#### Market segment by Surface Treatment

Anodizing

Passivation

Others

#### Market segment by Application

Power Battery

Energy Storage

Data Center

Others

#### 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

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 for Cold Plate product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Aluminum for Cold Plate 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 for Cold Plate 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 Aluminum for Cold Plate.

Chapter 14 and 15, to describe Aluminum for Cold Plate sales channel, distributors, customers, research findings and conclusion.

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