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

https://marketpublishers.com/r/GC00A1ECEA34EN.html
Date: May 2026
Pages: 98
Price: US$ 3,480.00 (Single User License)
ID: GC00A1ECEA34EN

Abstracts

According to our (Global Info Research) latest study, the global Aluminum for Liquid Cooling Plate market size was valued at US$ 2142 million in 2025 and is forecast to a readjusted size of US$ 4342 million by 2032 with a CAGR of 10.6% during review period.

Aluminum for Liquid Cooling Plate is a high-performance aluminum material specifically designed for thermal management in electric vehicle and energy storage liquid-cooled battery systems, providing optimized heat transfer, corrosion resistance, and mechanical stability to ensure safe and efficient cooling under demanding liquid-cooling conditions. The capacity utilization rate in 2025 was 80%, and the industry?s average gross margin was about 18%. In 2025, production was 1.15 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 liquid-cooled 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 Liquid Cooling Plate plays a critical role in thermal management for electric vehicle and energy storage liquid-cooled battery systems, where precise and efficient heat dissipation is essential for performance, safety, and longevity. As battery

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energy densities increase and fast-charging capabilities expand, the demand for materials that combine high thermal conductivity, corrosion resistance, and mechanical stability grows. OEMs and battery system integrators increasingly prioritize suppliers who can deliver consistent alloy composition, precise thickness control, and reliable processing to meet stringent cooling performance standards. Advances in alloy engineering, surface treatment, and precision rolling enable better integration of liquid-cooling plates within compact battery modules, supporting high-power applications while maintaining structural integrity. Additionally, as electrification expands across passenger vehicles, commercial vehicles, and stationary energy storage systems, scalable, durable, and thermally efficient aluminum solutions are becoming key differentiators, with supplier capabilities in quality control, processing precision, and thermal performance directly influencing long-term adoption and system reliability.

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

Global Aluminum for Liquid Cooling 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 Liquid Cooling 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 Liquid Cooling 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:

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

To assess the growth potential for Aluminum for Liquid Cooling 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 Liquid Cooling 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 Liquid Cooling 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

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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

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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 Liquid Cooling Plate product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Aluminum for Liquid Cooling Plate breakdown data are shown at the

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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 Liquid Cooling 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 Liquid Cooling Plate.

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

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