

Global Aluminum for Liquid Cooling Plate Market Growth 2026-2032

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Abstracts

The global Aluminum for Liquid Cooling Plate market size is predicted to grow from US\$ 2036 million in 2025 to US\$ 4279 million in 2032; it is expected to grow at a CAGR of 11.3% from 2026 to 2032.

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 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.

LP Information, Inc. (LPI) ' newest research report, the "Aluminum for Liquid Cooling Plate Industry Forecast" looks at past sales and reviews total world Aluminum for Liquid Cooling Plate sales in 2025, providing a comprehensive analysis by region and market sector of projected Aluminum for Liquid Cooling Plate sales for 2026 through 2032. With Aluminum for Liquid Cooling Plate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Aluminum for Liquid Cooling Plate industry.

This Insight Report provides a comprehensive analysis of the global Aluminum for Liquid Cooling Plate landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Aluminum for Liquid Cooling Plate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Aluminum for Liquid Cooling Plate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Aluminum for Liquid Cooling Plate and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Aluminum for Liquid Cooling Plate.

This report presents a comprehensive overview, market shares, and growth opportunities of Aluminum for Liquid Cooling Plate market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Aluminum Alloy 5052

Aluminum Alloy 6061

Others

Segmentation by Process:

Rolled Sheet

Extruded Profile

Others

Segmentation by Surface Treatment:

Anodizing

Passivation

Others

Segmentation by Application:

Power Battery

Energy Storage

Data Center

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Norsk Hydro

Shanghai Huafon Aluminium Corporation

Chalco

Constellium

UACJ

Sakai aluminium Corporation

Hindalco Industries

Lotte Aluminum

Henan Mingtai Al.Industrial

Yong Jie New Material

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aluminum for Liquid Cooling Plate market?

What factors are driving Aluminum for Liquid Cooling Plate market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Aluminum for Liquid Cooling Plate market opportunities vary by end market size?

How does Aluminum for Liquid Cooling Plate break out by Type, by Application?

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