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Global Aluminum for Liquid Cooling Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminum for Liquid Cooling Plate market size is expected to reach $ 4342 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

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

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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 studies the global Aluminum for Liquid Cooling Plate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aluminum for Liquid Cooling Plate 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 Aluminum for Liquid Cooling Plate that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

This report profiles key players in the global Aluminum for Liquid Cooling Plate market

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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, 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 Aluminum for Liquid Cooling Plate 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 Aluminum for Liquid Cooling Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Aluminum for Liquid Cooling Plate Market, Segmentation by Type:

Aluminum Alloy 5052

Aluminum Alloy 6061

Others

Global Aluminum for Liquid Cooling Plate Market, Segmentation by Process:

Rolled Sheet

Extruded Profile

Others

Global Aluminum for Liquid Cooling Plate Market, Segmentation by Surface Treatment:

Anodizing

Passivation

Others

Global Aluminum for Liquid Cooling Plate Market, Segmentation by Application:

Power Battery

Energy Storage

Data Center

Others

Companies Profiled:

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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 Answered:

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

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