

Global Aluminum for Liquid Cooling 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 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

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:

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

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

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 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

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.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Aluminum for Liquid Cooling Plate Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Aluminum Alloy 5052

1.3.3 Aluminum Alloy 6061

1.3.4 Others

1.4 Market Analysis by Process

1.4.1 Overview: Global Aluminum for Liquid Cooling Plate Consumption Value by Process: 2021 Versus 2025 Versus 2032

1.4.2 Rolled Sheet

1.4.3 Extruded Profile

1.4.4 Others

1.5 Market Analysis by Surface Treatment

1.5.1 Overview: Global Aluminum for Liquid Cooling Plate Consumption Value by Surface Treatment: 2021 Versus 2025 Versus 2032

1.5.2 Anodizing

1.5.3 Passivation

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Aluminum for Liquid Cooling Plate Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Power Battery

1.6.3 Energy Storage

1.6.4 Data Center

1.6.5 Others

1.7 Global Aluminum for Liquid Cooling Plate Market Size & Forecast

1.7.1 Global Aluminum for Liquid Cooling Plate Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Aluminum for Liquid Cooling Plate Sales Quantity (2021-2032)

1.7.3 Global Aluminum for Liquid Cooling Plate Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Norsk Hydro

2.1.1 Norsk Hydro Details

2.1.2 Norsk Hydro Major Business

2.1.3 Norsk Hydro Aluminum for Liquid Cooling Plate Product and Services

2.1.4 Norsk Hydro Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Norsk Hydro Recent Developments/Updates

2.2 Shanghai Huafon Aluminium Corporation

2.2.1 Shanghai Huafon Aluminium Corporation Details

2.2.2 Shanghai Huafon Aluminium Corporation Major Business

2.2.3 Shanghai Huafon Aluminium Corporation Aluminum for Liquid Cooling Plate Product and Services

2.2.4 Shanghai Huafon Aluminium Corporation Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Shanghai Huafon Aluminium Corporation Recent Developments/Updates

2.3 Chalco

2.3.1 Chalco Details

2.3.2 Chalco Major Business

2.3.3 Chalco Aluminum for Liquid Cooling Plate Product and Services

2.3.4 Chalco Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Chalco Recent Developments/Updates

2.4 Constellium

2.4.1 Constellium Details

2.4.2 Constellium Major Business

2.4.3 Constellium Aluminum for Liquid Cooling Plate Product and Services

2.4.4 Constellium Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Constellium Recent Developments/Updates

2.5 UACJ

2.5.1 UACJ Details

2.5.2 UACJ Major Business

2.5.3 UACJ Aluminum for Liquid Cooling Plate Product and Services

2.5.4 UACJ Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 UACJ Recent Developments/Updates

2.6 Sakai aluminium Corporation

2.6.1 Sakai aluminium Corporation Details

2.6.2 Sakai aluminium Corporation Major Business

2.6.3 Sakai aluminium Corporation Aluminum for Liquid Cooling Plate Product and Services

2.6.4 Sakai aluminium Corporation Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Sakai aluminium Corporation Recent Developments/Updates

2.7 Hindalco Industries

2.7.1 Hindalco Industries Details

2.7.2 Hindalco Industries Major Business

2.7.3 Hindalco Industries Aluminum for Liquid Cooling Plate Product and Services

2.7.4 Hindalco Industries Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Hindalco Industries Recent Developments/Updates

2.8 Lotte Aluminum

2.8.1 Lotte Aluminum Details

2.8.2 Lotte Aluminum Major Business

2.8.3 Lotte Aluminum Aluminum for Liquid Cooling Plate Product and Services

2.8.4 Lotte Aluminum Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Lotte Aluminum Recent Developments/Updates

2.9 Henan Mingtai Al.Industrial

2.9.1 Henan Mingtai Al.Industrial Details

2.9.2 Henan Mingtai Al.Industrial Major Business

2.9.3 Henan Mingtai Al.Industrial Aluminum for Liquid Cooling Plate Product and Services

2.9.4 Henan Mingtai Al.Industrial Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Henan Mingtai Al.Industrial Recent Developments/Updates

2.10 Yong Jie New Material

2.10.1 Yong Jie New Material Details

2.10.2 Yong Jie New Material Major Business

2.10.3 Yong Jie New Material Aluminum for Liquid Cooling Plate Product and Services

2.10.4 Yong Jie New Material Aluminum for Liquid Cooling Plate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Yong Jie New Material Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ALUMINUM FOR LIQUID COOLING PLATE BY MANUFACTURER

3.1 Global Aluminum for Liquid Cooling Plate Sales Quantity by Manufacturer

(2021-2026)

3.2 Global Aluminum for Liquid Cooling Plate Revenue by Manufacturer (2021-2026)

3.3 Global Aluminum for Liquid Cooling Plate Average Price by Manufacturer
(2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Aluminum for Liquid Cooling Plate by Manufacturer
Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Aluminum for Liquid Cooling Plate Manufacturer Market Share in 2025

3.4.3 Top 6 Aluminum for Liquid Cooling Plate Manufacturer Market Share in 2025

3.5 Aluminum for Liquid Cooling Plate Market: Overall Company Footprint Analysis

3.5.1 Aluminum for Liquid Cooling Plate Market: Region Footprint

3.5.2 Aluminum for Liquid Cooling Plate Market: Company Product Type Footprint

3.5.3 Aluminum for Liquid Cooling Plate Market: Company Product Application
Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Aluminum for Liquid Cooling Plate Market Size by Region

4.1.1 Global Aluminum for Liquid Cooling Plate Sales Quantity by Region (2021-2032)

4.1.2 Global Aluminum for Liquid Cooling Plate Consumption Value by Region
(2021-2032)

4.1.3 Global Aluminum for Liquid Cooling Plate Average Price by Region (2021-2032)

4.2 North America Aluminum for Liquid Cooling Plate Consumption Value (2021-2032)

4.3 Europe Aluminum for Liquid Cooling Plate Consumption Value (2021-2032)

4.4 Asia-Pacific Aluminum for Liquid Cooling Plate Consumption Value (2021-2032)

4.5 South America Aluminum for Liquid Cooling Plate Consumption Value (2021-2032)

4.6 Middle East & Africa Aluminum for Liquid Cooling Plate Consumption Value
(2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2032)

5.2 Global Aluminum for Liquid Cooling Plate Consumption Value by Type (2021-2032)

5.3 Global Aluminum for Liquid Cooling Plate Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2032)
- 6.2 Global Aluminum for Liquid Cooling Plate Consumption Value by Application (2021-2032)
- 6.3 Global Aluminum for Liquid Cooling Plate Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2032)
- 7.2 North America Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2032)
- 7.3 North America Aluminum for Liquid Cooling Plate Market Size by Country
 - 7.3.1 North America Aluminum for Liquid Cooling Plate Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Aluminum for Liquid Cooling Plate Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2032)
- 8.2 Europe Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2032)
- 8.3 Europe Aluminum for Liquid Cooling Plate Market Size by Country
 - 8.3.1 Europe Aluminum for Liquid Cooling Plate Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Aluminum for Liquid Cooling Plate Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Aluminum for Liquid Cooling Plate Market Size by Region

9.3.1 Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Aluminum for Liquid Cooling Plate Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2032)

10.2 South America Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2032)

10.3 South America Aluminum for Liquid Cooling Plate Market Size by Country

10.3.1 South America Aluminum for Liquid Cooling Plate Sales Quantity by Country (2021-2032)

10.3.2 South America Aluminum for Liquid Cooling Plate Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Aluminum for Liquid Cooling Plate Market Size by Country

11.3.1 Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Aluminum for Liquid Cooling Plate Consumption Value by Country (2021-2032)

- 11.3.3 Turkey Market Size and Forecast (2021-2032)
- 11.3.4 Egypt Market Size and Forecast (2021-2032)
- 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
- 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Aluminum for Liquid Cooling Plate Market Drivers
- 12.2 Aluminum for Liquid Cooling Plate Market Restraints
- 12.3 Aluminum for Liquid Cooling Plate Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Aluminum for Liquid Cooling Plate and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Aluminum for Liquid Cooling Plate
- 13.3 Aluminum for Liquid Cooling Plate Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Aluminum for Liquid Cooling Plate Typical Distributors
- 14.3 Aluminum for Liquid Cooling Plate Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Aluminum for Liquid Cooling Plate Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Aluminum for Liquid Cooling Plate Consumption Value by Process, (USD Million), 2021 & 2025 & 2032

Table 3. Global Aluminum for Liquid Cooling Plate Consumption Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Table 4. Global Aluminum for Liquid Cooling Plate Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Norsk Hydro Basic Information, Manufacturing Base and Competitors

Table 6. Norsk Hydro Major Business

Table 7. Norsk Hydro Aluminum for Liquid Cooling Plate Product and Services

Table 8. Norsk Hydro Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Norsk Hydro Recent Developments/Updates

Table 10. Shanghai Huaфон Aluminium Corporation Basic Information, Manufacturing Base and Competitors

Table 11. Shanghai Huaфон Aluminium Corporation Major Business

Table 12. Shanghai Huaфон Aluminium Corporation Aluminum for Liquid Cooling Plate Product and Services

Table 13. Shanghai Huaфон Aluminium Corporation Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Shanghai Huaфон Aluminium Corporation Recent Developments/Updates

Table 15. Chalco Basic Information, Manufacturing Base and Competitors

Table 16. Chalco Major Business

Table 17. Chalco Aluminum for Liquid Cooling Plate Product and Services

Table 18. Chalco Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Chalco Recent Developments/Updates

Table 20. Constellium Basic Information, Manufacturing Base and Competitors

Table 21. Constellium Major Business

Table 22. Constellium Aluminum for Liquid Cooling Plate Product and Services

Table 23. Constellium Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 24. Constellium Recent Developments/Updates

Table 25. UACJ Basic Information, Manufacturing Base and Competitors

Table 26. UACJ Major Business

Table 27. UACJ Aluminum for Liquid Cooling Plate Product and Services

Table 28. UACJ Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. UACJ Recent Developments/Updates

Table 30. Sakai aluminium Corporation Basic Information, Manufacturing Base and Competitors

Table 31. Sakai aluminium Corporation Major Business

Table 32. Sakai aluminium Corporation Aluminum for Liquid Cooling Plate Product and Services

Table 33. Sakai aluminium Corporation Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Sakai aluminium Corporation Recent Developments/Updates

Table 35. Hindalco Industries Basic Information, Manufacturing Base and Competitors

Table 36. Hindalco Industries Major Business

Table 37. Hindalco Industries Aluminum for Liquid Cooling Plate Product and Services

Table 38. Hindalco Industries Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Hindalco Industries Recent Developments/Updates

Table 40. Lotte Aluminum Basic Information, Manufacturing Base and Competitors

Table 41. Lotte Aluminum Major Business

Table 42. Lotte Aluminum Aluminum for Liquid Cooling Plate Product and Services

Table 43. Lotte Aluminum Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Lotte Aluminum Recent Developments/Updates

Table 45. Henan Mingtai Al.Industrial Basic Information, Manufacturing Base and Competitors

Table 46. Henan Mingtai Al.Industrial Major Business

Table 47. Henan Mingtai Al.Industrial Aluminum for Liquid Cooling Plate Product and Services

Table 48. Henan Mingtai Al.Industrial Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Henan Mingtai Al.Industrial Recent Developments/Updates

Table 50. Yong Jie New Material Basic Information, Manufacturing Base and Competitors

Table 51. Yong Jie New Material Major Business

Table 52. Yong Jie New Material Aluminum for Liquid Cooling Plate Product and Services

Table 53. Yong Jie New Material Aluminum for Liquid Cooling Plate Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Yong Jie New Material Recent Developments/Updates

Table 55. Global Aluminum for Liquid Cooling Plate Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 56. Global Aluminum for Liquid Cooling Plate Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global Aluminum for Liquid Cooling Plate Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 58. Market Position of Manufacturers in Aluminum for Liquid Cooling Plate, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and Aluminum for Liquid Cooling Plate Production Site of Key Manufacturer

Table 60. Aluminum for Liquid Cooling Plate Market: Company Product Type Footprint

Table 61. Aluminum for Liquid Cooling Plate Market: Company Product Application Footprint

Table 62. Aluminum for Liquid Cooling Plate New Market Entrants and Barriers to Market Entry

Table 63. Aluminum for Liquid Cooling Plate Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global Aluminum for Liquid Cooling Plate Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global Aluminum for Liquid Cooling Plate Sales Quantity by Region (2021-2026) & (Tons)

Table 66. Global Aluminum for Liquid Cooling Plate Sales Quantity by Region (2027-2032) & (Tons)

Table 67. Global Aluminum for Liquid Cooling Plate Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global Aluminum for Liquid Cooling Plate Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global Aluminum for Liquid Cooling Plate Average Price by Region (2021-2026) & (US\$/Ton)

Table 70. Global Aluminum for Liquid Cooling Plate Average Price by Region (2027-2032) & (US\$/Ton)

Table 71. Global Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2026) & (Tons)

Table 72. Global Aluminum for Liquid Cooling Plate Sales Quantity by Type (2027-2032) & (Tons)

Table 73. Global Aluminum for Liquid Cooling Plate Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global Aluminum for Liquid Cooling Plate Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global Aluminum for Liquid Cooling Plate Average Price by Type (2021-2026) & (US\$/Ton)

Table 76. Global Aluminum for Liquid Cooling Plate Average Price by Type (2027-2032) & (US\$/Ton)

Table 77. Global Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2026) & (Tons)

Table 78. Global Aluminum for Liquid Cooling Plate Sales Quantity by Application (2027-2032) & (Tons)

Table 79. Global Aluminum for Liquid Cooling Plate Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global Aluminum for Liquid Cooling Plate Consumption Value by Application (2027-2032) & (USD Million)

Table 81. Global Aluminum for Liquid Cooling Plate Average Price by Application (2021-2026) & (US\$/Ton)

Table 82. Global Aluminum for Liquid Cooling Plate Average Price by Application (2027-2032) & (US\$/Ton)

Table 83. North America Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2026) & (Tons)

Table 84. North America Aluminum for Liquid Cooling Plate Sales Quantity by Type (2027-2032) & (Tons)

Table 85. North America Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2026) & (Tons)

Table 86. North America Aluminum for Liquid Cooling Plate Sales Quantity by Application (2027-2032) & (Tons)

Table 87. North America Aluminum for Liquid Cooling Plate Sales Quantity by Country (2021-2026) & (Tons)

Table 88. North America Aluminum for Liquid Cooling Plate Sales Quantity by Country (2027-2032) & (Tons)

Table 89. North America Aluminum for Liquid Cooling Plate Consumption Value by

Country (2021-2026) & (USD Million)

Table 90. North America Aluminum for Liquid Cooling Plate Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2026) & (Tons)

Table 92. Europe Aluminum for Liquid Cooling Plate Sales Quantity by Type (2027-2032) & (Tons)

Table 93. Europe Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2026) & (Tons)

Table 94. Europe Aluminum for Liquid Cooling Plate Sales Quantity by Application (2027-2032) & (Tons)

Table 95. Europe Aluminum for Liquid Cooling Plate Sales Quantity by Country (2021-2026) & (Tons)

Table 96. Europe Aluminum for Liquid Cooling Plate Sales Quantity by Country (2027-2032) & (Tons)

Table 97. Europe Aluminum for Liquid Cooling Plate Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe Aluminum for Liquid Cooling Plate Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2026) & (Tons)

Table 100. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Type (2027-2032) & (Tons)

Table 101. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2026) & (Tons)

Table 102. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Application (2027-2032) & (Tons)

Table 103. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Region (2021-2026) & (Tons)

Table 104. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity by Region (2027-2032) & (Tons)

Table 105. Asia-Pacific Aluminum for Liquid Cooling Plate Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific Aluminum for Liquid Cooling Plate Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2026) & (Tons)

Table 108. South America Aluminum for Liquid Cooling Plate Sales Quantity by Type (2027-2032) & (Tons)

Table 109. South America Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2026) & (Tons)

Table 110. South America Aluminum for Liquid Cooling Plate Sales Quantity by Application (2027-2032) & (Tons)

Table 111. South America Aluminum for Liquid Cooling Plate Sales Quantity by Country (2021-2026) & (Tons)

Table 112. South America Aluminum for Liquid Cooling Plate Sales Quantity by Country (2027-2032) & (Tons)

Table 113. South America Aluminum for Liquid Cooling Plate Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America Aluminum for Liquid Cooling Plate Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Type (2021-2026) & (Tons)

Table 116. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Type (2027-2032) & (Tons)

Table 117. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Application (2021-2026) & (Tons)

Table 118. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Application (2027-2032) & (Tons)

Table 119. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Country (2021-2026) & (Tons)

Table 120. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity by Country (2027-2032) & (Tons)

Table 121. Middle East & Africa Aluminum for Liquid Cooling Plate Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa Aluminum for Liquid Cooling Plate Consumption Value by Country (2027-2032) & (USD Million)

Table 123. Aluminum for Liquid Cooling Plate Raw Material

Table 124. Key Manufacturers of Aluminum for Liquid Cooling Plate Raw Materials

Table 125. Aluminum for Liquid Cooling Plate Typical Distributors

Table 126. Aluminum for Liquid Cooling Plate Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Aluminum for Liquid Cooling Plate Picture

Figure 2. Global Aluminum for Liquid Cooling Plate Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Aluminum for Liquid Cooling Plate Revenue Market Share by Type in 2025

Figure 4. Aluminum Alloy 5052 Examples

Figure 5. Aluminum Alloy 6061 Examples

Figure 6. Others Examples

Figure 7. Global Aluminum for Liquid Cooling Plate Revenue by Process, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Aluminum for Liquid Cooling Plate Revenue Market Share by Process in 2025

Figure 9. Rolled Sheet Examples

Figure 10. Extruded Profile Examples

Figure 11. Others Examples

Figure 12. Global Aluminum for Liquid Cooling Plate Revenue by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Figure 13. Global Aluminum for Liquid Cooling Plate Revenue Market Share by Surface Treatment in 2025

Figure 14. Anodizing Examples

Figure 15. Passivation Examples

Figure 16. Others Examples

Figure 17. Global Aluminum for Liquid Cooling Plate Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global Aluminum for Liquid Cooling Plate Revenue Market Share by Application in 2025

Figure 19. Power Battery Examples

Figure 20. Energy Storage Examples

Figure 21. Data Center Examples

Figure 22. Others Examples

Figure 23. Global Aluminum for Liquid Cooling Plate Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 24. Global Aluminum for Liquid Cooling Plate Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 25. Global Aluminum for Liquid Cooling Plate Sales Quantity (2021-2032) &

(Tons)

Figure 26. Global Aluminum for Liquid Cooling Plate Price (2021-2032) & (US\$/Ton)

Figure 27. Global Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global Aluminum for Liquid Cooling Plate Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of Aluminum for Liquid Cooling Plate by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 Aluminum for Liquid Cooling Plate Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 Aluminum for Liquid Cooling Plate Manufacturer (Revenue) Market Share in 2025

Figure 32. Global Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global Aluminum for Liquid Cooling Plate Consumption Value Market Share by Region (2021-2032)

Figure 34. North America Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)

Figure 37. South America Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)

Figure 39. Global Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global Aluminum for Liquid Cooling Plate Consumption Value Market Share by Type (2021-2032)

Figure 41. Global Aluminum for Liquid Cooling Plate Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. Global Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global Aluminum for Liquid Cooling Plate Revenue Market Share by Application (2021-2032)

Figure 44. Global Aluminum for Liquid Cooling Plate Average Price by Application (2021-2032) & (US\$/Ton)

Figure 45. North America Aluminum for Liquid Cooling Plate Sales Quantity Market

Share by Type (2021-2032)

Figure 46. North America Aluminum for Liquid Cooling Plate Sales Quantity Market

Share by Application (2021-2032)

Figure 47. North America Aluminum for Liquid Cooling Plate Sales Quantity Market

Share by Country (2021-2032)

Figure 48. North America Aluminum for Liquid Cooling Plate Consumption Value Market

Share by Country (2021-2032)

Figure 49. United States Aluminum for Liquid Cooling Plate Consumption Value
(2021-2032) & (USD Million)

Figure 50. Canada Aluminum for Liquid Cooling Plate Consumption Value (2021-2032)
& (USD Million)

Figure 51. Mexico Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) &
(USD Million)

Figure 52. Europe Aluminum for Liquid Cooling Plate Sales Quantity Market Share by
Type (2021-2032)

Figure 53. Europe Aluminum for Liquid Cooling Plate Sales Quantity Market Share by
Application (2021-2032)

Figure 54. Europe Aluminum for Liquid Cooling Plate Sales Quantity Market Share by
Country (2021-2032)

Figure 55. Europe Aluminum for Liquid Cooling Plate Consumption Value Market Share
by Country (2021-2032)

Figure 56. Germany Aluminum for Liquid Cooling Plate Consumption Value (2021-2032)
& (USD Million)

Figure 57. France Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) &
(USD Million)

Figure 58. United Kingdom Aluminum for Liquid Cooling Plate Consumption Value
(2021-2032) & (USD Million)

Figure 59. Russia Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) &
(USD Million)

Figure 60. Italy Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) &
(USD Million)

Figure 61. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity Market Share
by Type (2021-2032)

Figure 62. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity Market Share
by Application (2021-2032)

Figure 63. Asia-Pacific Aluminum for Liquid Cooling Plate Sales Quantity Market Share
by Region (2021-2032)

Figure 64. Asia-Pacific Aluminum for Liquid Cooling Plate Consumption Value Market
Share by Region (2021-2032)

- Figure 65. China Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 66. Japan Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 67. South Korea Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 68. India Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 69. Southeast Asia Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 70. Australia Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 71. South America Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Type (2021-2032)
- Figure 72. South America Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Application (2021-2032)
- Figure 73. South America Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Country (2021-2032)
- Figure 74. South America Aluminum for Liquid Cooling Plate Consumption Value Market Share by Country (2021-2032)
- Figure 75. Brazil Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 76. Argentina Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 77. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Type (2021-2032)
- Figure 78. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Application (2021-2032)
- Figure 79. Middle East & Africa Aluminum for Liquid Cooling Plate Sales Quantity Market Share by Country (2021-2032)
- Figure 80. Middle East & Africa Aluminum for Liquid Cooling Plate Consumption Value Market Share by Country (2021-2032)
- Figure 81. Turkey Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 82. Egypt Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 83. Saudi Arabia Aluminum for Liquid Cooling Plate Consumption Value (2021-2032) & (USD Million)
- Figure 84. South Africa Aluminum for Liquid Cooling Plate Consumption Value

(2021-2032) & (USD Million)

Figure 85. Aluminum for Liquid Cooling Plate Market Drivers

Figure 86. Aluminum for Liquid Cooling Plate Market Restraints

Figure 87. Aluminum for Liquid Cooling Plate Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of Aluminum for Liquid Cooling Plate in 2025

Figure 90. Manufacturing Process Analysis of Aluminum for Liquid Cooling Plate

Figure 91. Aluminum for Liquid Cooling Plate Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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