

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

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

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

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:

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?

Contents

1 SUPPLY SUMMARY

- 1.1 Aluminum for Liquid Cooling Plate Introduction
- 1.2 World Aluminum for Liquid Cooling Plate Supply & Forecast
 - 1.2.1 World Aluminum for Liquid Cooling Plate Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Aluminum for Liquid Cooling Plate Production (2021-2032)
 - 1.2.3 World Aluminum for Liquid Cooling Plate Pricing Trends (2021-2032)
- 1.3 World Aluminum for Liquid Cooling Plate Production by Region (Based on Production Site)
 - 1.3.1 World Aluminum for Liquid Cooling Plate Production Value by Region (2021-2032)
 - 1.3.2 World Aluminum for Liquid Cooling Plate Production by Region (2021-2032)
 - 1.3.3 World Aluminum for Liquid Cooling Plate Average Price by Region (2021-2032)
 - 1.3.4 North America Aluminum for Liquid Cooling Plate Production (2021-2032)
 - 1.3.5 Europe Aluminum for Liquid Cooling Plate Production (2021-2032)
 - 1.3.6 China Aluminum for Liquid Cooling Plate Production (2021-2032)
 - 1.3.7 Japan Aluminum for Liquid Cooling Plate Production (2021-2032)
 - 1.3.8 South Korea Aluminum for Liquid Cooling Plate Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Aluminum for Liquid Cooling Plate Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Aluminum for Liquid Cooling Plate Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Aluminum for Liquid Cooling Plate Demand (2021-2032)
- 2.2 World Aluminum for Liquid Cooling Plate Consumption by Region
 - 2.2.1 World Aluminum for Liquid Cooling Plate Consumption by Region (2021-2026)
 - 2.2.2 World Aluminum for Liquid Cooling Plate Consumption Forecast by Region (2027-2032)
- 2.3 United States Aluminum for Liquid Cooling Plate Consumption (2021-2032)
- 2.4 China Aluminum for Liquid Cooling Plate Consumption (2021-2032)
- 2.5 Europe Aluminum for Liquid Cooling Plate Consumption (2021-2032)
- 2.6 Japan Aluminum for Liquid Cooling Plate Consumption (2021-2032)
- 2.7 South Korea Aluminum for Liquid Cooling Plate Consumption (2021-2032)
- 2.8 ASEAN Aluminum for Liquid Cooling Plate Consumption (2021-2032)
- 2.9 India Aluminum for Liquid Cooling Plate Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Aluminum for Liquid Cooling Plate Production Value by Manufacturer (2021-2026)

3.2 World Aluminum for Liquid Cooling Plate Production by Manufacturer (2021-2026)

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

3.4 Aluminum for Liquid Cooling Plate Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Aluminum for Liquid Cooling Plate Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Aluminum for Liquid Cooling Plate in 2025

3.5.3 Global Concentration Ratios (CR8) for Aluminum for Liquid Cooling Plate in 2025

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

3.6.1 Aluminum for Liquid Cooling Plate Market: Region Footprint

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

3.6.3 Aluminum for Liquid Cooling Plate Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Aluminum for Liquid Cooling Plate Production Value Comparison

4.1.1 United States VS China: Aluminum for Liquid Cooling Plate Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Aluminum for Liquid Cooling Plate Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Aluminum for Liquid Cooling Plate Production Comparison

4.2.1 United States VS China: Aluminum for Liquid Cooling Plate Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Aluminum for Liquid Cooling Plate Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Aluminum for Liquid Cooling Plate Consumption

Comparison

4.3.1 United States VS China: Aluminum for Liquid Cooling Plate Consumption

Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Aluminum for Liquid Cooling Plate Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Aluminum for Liquid Cooling Plate Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Aluminum for Liquid Cooling Plate Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Aluminum for Liquid Cooling Plate Production Value (2021-2026)

4.4.3 United States Based Manufacturers Aluminum for Liquid Cooling Plate Production (2021-2026)

4.5 China Based Aluminum for Liquid Cooling Plate Manufacturers and Market Share

4.5.1 China Based Aluminum for Liquid Cooling Plate Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Aluminum for Liquid Cooling Plate Production Value (2021-2026)

4.5.3 China Based Manufacturers Aluminum for Liquid Cooling Plate Production (2021-2026)

4.6 Rest of World Based Aluminum for Liquid Cooling Plate Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Aluminum for Liquid Cooling Plate Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Aluminum for Liquid Cooling Plate Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Aluminum for Liquid Cooling Plate Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Aluminum for Liquid Cooling Plate Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Aluminum Alloy 5052

5.2.2 Aluminum Alloy 6061

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Aluminum for Liquid Cooling Plate Production by Type (2021-2032)

5.3.2 World Aluminum for Liquid Cooling Plate Production Value by Type (2021-2032)

5.3.3 World Aluminum for Liquid Cooling Plate Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PROCESS

6.1 World Aluminum for Liquid Cooling Plate Market Size Overview by Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Process

6.2.1 Rolled Sheet

6.2.2 Extruded Profile

6.2.3 Others

6.3 Market Segment by Process

6.3.1 World Aluminum for Liquid Cooling Plate Production by Process (2021-2032)

6.3.2 World Aluminum for Liquid Cooling Plate Production Value by Process (2021-2032)

6.3.3 World Aluminum for Liquid Cooling Plate Average Price by Process (2021-2032)

7 MARKET ANALYSIS BY SURFACE TREATMENT

7.1 World Aluminum for Liquid Cooling Plate Market Size Overview by Surface Treatment: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Surface Treatment

7.2.1 Anodizing

7.2.2 Passivation

7.2.3 Others

7.3 Market Segment by Surface Treatment

7.3.1 World Aluminum for Liquid Cooling Plate Production by Surface Treatment (2021-2032)

7.3.2 World Aluminum for Liquid Cooling Plate Production Value by Surface Treatment (2021-2032)

7.3.3 World Aluminum for Liquid Cooling Plate Average Price by Surface Treatment (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Aluminum for Liquid Cooling Plate Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Battery

8.2.2 Energy Storage

8.2.3 Data Center

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Aluminum for Liquid Cooling Plate Production by Application (2021-2032)

8.3.2 World Aluminum for Liquid Cooling Plate Production Value by Application (2021-2032)

8.3.3 World Aluminum for Liquid Cooling Plate Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Norsk Hydro

9.1.1 Norsk Hydro Details

9.1.2 Norsk Hydro Major Business

9.1.3 Norsk Hydro Aluminum for Liquid Cooling Plate Product and Services

9.1.4 Norsk Hydro Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Norsk Hydro Recent Developments/Updates

9.1.6 Norsk Hydro Competitive Strengths & Weaknesses

9.2 Shanghai Huaфон Aluminium Corporation

9.2.1 Shanghai Huaфон Aluminium Corporation Details

9.2.2 Shanghai Huaфон Aluminium Corporation Major Business

9.2.3 Shanghai Huaфон Aluminium Corporation Aluminum for Liquid Cooling Plate Product and Services

9.2.4 Shanghai Huaфон Aluminium Corporation Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Shanghai Huaфон Aluminium Corporation Recent Developments/Updates

9.2.6 Shanghai Huaфон Aluminium Corporation Competitive Strengths & Weaknesses

9.3 Chalco

9.3.1 Chalco Details

9.3.2 Chalco Major Business

9.3.3 Chalco Aluminum for Liquid Cooling Plate Product and Services

9.3.4 Chalco Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Chalco Recent Developments/Updates

9.3.6 Chalco Competitive Strengths & Weaknesses

9.4 Constellium

9.4.1 Constellium Details

- 9.4.2 Constellium Major Business
- 9.4.3 Constellium Aluminum for Liquid Cooling Plate Product and Services
- 9.4.4 Constellium Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Constellium Recent Developments/Updates
- 9.4.6 Constellium Competitive Strengths & Weaknesses
- 9.5 UACJ
 - 9.5.1 UACJ Details
 - 9.5.2 UACJ Major Business
 - 9.5.3 UACJ Aluminum for Liquid Cooling Plate Product and Services
 - 9.5.4 UACJ Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 UACJ Recent Developments/Updates
 - 9.5.6 UACJ Competitive Strengths & Weaknesses
- 9.6 Sakai aluminium Corporation
 - 9.6.1 Sakai aluminium Corporation Details
 - 9.6.2 Sakai aluminium Corporation Major Business
 - 9.6.3 Sakai aluminium Corporation Aluminum for Liquid Cooling Plate Product and Services
 - 9.6.4 Sakai aluminium Corporation Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Sakai aluminium Corporation Recent Developments/Updates
 - 9.6.6 Sakai aluminium Corporation Competitive Strengths & Weaknesses
- 9.7 Hindalco Industries
 - 9.7.1 Hindalco Industries Details
 - 9.7.2 Hindalco Industries Major Business
 - 9.7.3 Hindalco Industries Aluminum for Liquid Cooling Plate Product and Services
 - 9.7.4 Hindalco Industries Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Hindalco Industries Recent Developments/Updates
 - 9.7.6 Hindalco Industries Competitive Strengths & Weaknesses
- 9.8 Lotte Aluminum
 - 9.8.1 Lotte Aluminum Details
 - 9.8.2 Lotte Aluminum Major Business
 - 9.8.3 Lotte Aluminum Aluminum for Liquid Cooling Plate Product and Services
 - 9.8.4 Lotte Aluminum Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Lotte Aluminum Recent Developments/Updates
 - 9.8.6 Lotte Aluminum Competitive Strengths & Weaknesses

9.9 Henan Mingtai Al.Industrial

9.9.1 Henan Mingtai Al.Industrial Details

9.9.2 Henan Mingtai Al.Industrial Major Business

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

9.9.4 Henan Mingtai Al.Industrial Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Henan Mingtai Al.Industrial Recent Developments/Updates

9.9.6 Henan Mingtai Al.Industrial Competitive Strengths & Weaknesses

9.10 Yong Jie New Material

9.10.1 Yong Jie New Material Details

9.10.2 Yong Jie New Material Major Business

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

9.10.4 Yong Jie New Material Aluminum for Liquid Cooling Plate Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Yong Jie New Material Recent Developments/Updates

9.10.6 Yong Jie New Material Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Aluminum for Liquid Cooling Plate Industry Chain

10.2 Aluminum for Liquid Cooling Plate Upstream Analysis

10.2.1 Aluminum for Liquid Cooling Plate Core Raw Materials

10.2.2 Main Manufacturers of Aluminum for Liquid Cooling Plate Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Aluminum for Liquid Cooling Plate Production Mode

10.6 Aluminum for Liquid Cooling Plate Procurement Model

10.7 Aluminum for Liquid Cooling Plate Industry Sales Model and Sales Channels

10.7.1 Aluminum for Liquid Cooling Plate Sales Model

10.7.2 Aluminum for Liquid Cooling Plate Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Aluminum for Liquid Cooling Plate Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Aluminum for Liquid Cooling Plate Production Value by Region (2021-2026) & (USD Million)

Table 3. World Aluminum for Liquid Cooling Plate Production Value by Region (2027-2032) & (USD Million)

Table 4. World Aluminum for Liquid Cooling Plate Production Value Market Share by Region (2021-2026)

Table 5. World Aluminum for Liquid Cooling Plate Production Value Market Share by Region (2027-2032)

Table 6. World Aluminum for Liquid Cooling Plate Production by Region (2021-2026) & (Tons)

Table 7. World Aluminum for Liquid Cooling Plate Production by Region (2027-2032) & (Tons)

Table 8. World Aluminum for Liquid Cooling Plate Production Market Share by Region (2021-2026)

Table 9. World Aluminum for Liquid Cooling Plate Production Market Share by Region (2027-2032)

Table 10. World Aluminum for Liquid Cooling Plate Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Aluminum for Liquid Cooling Plate Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Aluminum for Liquid Cooling Plate Major Market Trends

Table 13. World Aluminum for Liquid Cooling Plate Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Aluminum for Liquid Cooling Plate Consumption by Region (2021-2026) & (Tons)

Table 15. World Aluminum for Liquid Cooling Plate Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Aluminum for Liquid Cooling Plate Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Aluminum for Liquid Cooling Plate Producers in 2025

Table 18. World Aluminum for Liquid Cooling Plate Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Aluminum for Liquid Cooling Plate Producers in 2025

Table 20. World Aluminum for Liquid Cooling Plate Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Aluminum for Liquid Cooling Plate Company Evaluation Quadrant

Table 22. World Aluminum for Liquid Cooling Plate Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Aluminum for Liquid Cooling Plate Production Site of Key Manufacturer

Table 24. Aluminum for Liquid Cooling Plate Market: Company Product Type Footprint

Table 25. Aluminum for Liquid Cooling Plate Market: Company Product Application Footprint

Table 26. Aluminum for Liquid Cooling Plate Competitive Factors

Table 27. Aluminum for Liquid Cooling Plate New Entrant and Capacity Expansion Plans

Table 28. Aluminum for Liquid Cooling Plate Mergers & Acquisitions Activity

Table 29. United States VS China Aluminum for Liquid Cooling Plate Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Aluminum for Liquid Cooling Plate Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Aluminum for Liquid Cooling Plate Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Aluminum for Liquid Cooling Plate Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Aluminum for Liquid Cooling Plate Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Aluminum for Liquid Cooling Plate Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Aluminum for Liquid Cooling Plate Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Aluminum for Liquid Cooling Plate Production Market Share (2021-2026)

Table 37. China Based Aluminum for Liquid Cooling Plate Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Aluminum for Liquid Cooling Plate Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Aluminum for Liquid Cooling Plate Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Aluminum for Liquid Cooling Plate Production,

(2021-2026) & (Tons)

Table 41. China Based Manufacturers Aluminum for Liquid Cooling Plate Production Market Share (2021-2026)

Table 42. Rest of World Based Aluminum for Liquid Cooling Plate Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Aluminum for Liquid Cooling Plate Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Aluminum for Liquid Cooling Plate Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Aluminum for Liquid Cooling Plate Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Aluminum for Liquid Cooling Plate Production Market Share (2021-2026)

Table 47. World Aluminum for Liquid Cooling Plate Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Aluminum for Liquid Cooling Plate Production by Type (2021-2026) & (Tons)

Table 49. World Aluminum for Liquid Cooling Plate Production by Type (2027-2032) & (Tons)

Table 50. World Aluminum for Liquid Cooling Plate Production Value by Type (2021-2026) & (USD Million)

Table 51. World Aluminum for Liquid Cooling Plate Production Value by Type (2027-2032) & (USD Million)

Table 52. World Aluminum for Liquid Cooling Plate Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Aluminum for Liquid Cooling Plate Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Aluminum for Liquid Cooling Plate Production Value by Process, (USD Million), 2021 & 2025 & 2032

Table 55. World Aluminum for Liquid Cooling Plate Production by Process (2021-2026) & (Tons)

Table 56. World Aluminum for Liquid Cooling Plate Production by Process (2027-2032) & (Tons)

Table 57. World Aluminum for Liquid Cooling Plate Production Value by Process (2021-2026) & (USD Million)

Table 58. World Aluminum for Liquid Cooling Plate Production Value by Process (2027-2032) & (USD Million)

Table 59. World Aluminum for Liquid Cooling Plate Average Price by Process (2021-2026) & (US\$/Ton)

- Table 60. World Aluminum for Liquid Cooling Plate Average Price by Process (2027-2032) & (US\$/Ton)
- Table 61. World Aluminum for Liquid Cooling Plate Production Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032
- Table 62. World Aluminum for Liquid Cooling Plate Production by Surface Treatment (2021-2026) & (Tons)
- Table 63. World Aluminum for Liquid Cooling Plate Production by Surface Treatment (2027-2032) & (Tons)
- Table 64. World Aluminum for Liquid Cooling Plate Production Value by Surface Treatment (2021-2026) & (USD Million)
- Table 65. World Aluminum for Liquid Cooling Plate Production Value by Surface Treatment (2027-2032) & (USD Million)
- Table 66. World Aluminum for Liquid Cooling Plate Average Price by Surface Treatment (2021-2026) & (US\$/Ton)
- Table 67. World Aluminum for Liquid Cooling Plate Average Price by Surface Treatment (2027-2032) & (US\$/Ton)
- Table 68. World Aluminum for Liquid Cooling Plate Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Aluminum for Liquid Cooling Plate Production by Application (2021-2026) & (Tons)
- Table 70. World Aluminum for Liquid Cooling Plate Production by Application (2027-2032) & (Tons)
- Table 71. World Aluminum for Liquid Cooling Plate Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Aluminum for Liquid Cooling Plate Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Aluminum for Liquid Cooling Plate Average Price by Application (2021-2026) & (US\$/Ton)
- Table 74. World Aluminum for Liquid Cooling Plate Average Price by Application (2027-2032) & (US\$/Ton)
- Table 75. Norsk Hydro Basic Information, Manufacturing Base and Competitors
- Table 76. Norsk Hydro Major Business
- Table 77. Norsk Hydro Aluminum for Liquid Cooling Plate Product and Services
- Table 78. Norsk Hydro Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Norsk Hydro Recent Developments/Updates
- Table 80. Norsk Hydro Competitive Strengths & Weaknesses
- Table 81. Shanghai Huaфон Aluminium Corporation Basic Information, Manufacturing

Base and Competitors

Table 82. Shanghai Huaфон Aluminium Corporation Major Business

Table 83. Shanghai Huaфон Aluminium Corporation Aluminum for Liquid Cooling Plate Product and Services

Table 84. Shanghai Huaфон Aluminium Corporation Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Shanghai Huaфон Aluminium Corporation Recent Developments/Updates

Table 86. Shanghai Huaфон Aluminium Corporation Competitive Strengths & Weaknesses

Table 87. Chalco Basic Information, Manufacturing Base and Competitors

Table 88. Chalco Major Business

Table 89. Chalco Aluminum for Liquid Cooling Plate Product and Services

Table 90. Chalco Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Chalco Recent Developments/Updates

Table 92. Chalco Competitive Strengths & Weaknesses

Table 93. Constellium Basic Information, Manufacturing Base and Competitors

Table 94. Constellium Major Business

Table 95. Constellium Aluminum for Liquid Cooling Plate Product and Services

Table 96. Constellium Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Constellium Recent Developments/Updates

Table 98. Constellium Competitive Strengths & Weaknesses

Table 99. UACJ Basic Information, Manufacturing Base and Competitors

Table 100. UACJ Major Business

Table 101. UACJ Aluminum for Liquid Cooling Plate Product and Services

Table 102. UACJ Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. UACJ Recent Developments/Updates

Table 104. UACJ Competitive Strengths & Weaknesses

Table 105. Sakai aluminium Corporation Basic Information, Manufacturing Base and Competitors

Table 106. Sakai aluminium Corporation Major Business

Table 107. Sakai aluminium Corporation Aluminum for Liquid Cooling Plate Product and Services

Table 108. Sakai aluminium Corporation Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sakai aluminium Corporation Recent Developments/Updates

Table 110. Sakai aluminium Corporation Competitive Strengths & Weaknesses

Table 111. Hindalco Industries Basic Information, Manufacturing Base and Competitors

Table 112. Hindalco Industries Major Business

Table 113. Hindalco Industries Aluminum for Liquid Cooling Plate Product and Services

Table 114. Hindalco Industries Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Hindalco Industries Recent Developments/Updates

Table 116. Hindalco Industries Competitive Strengths & Weaknesses

Table 117. Lotte Aluminum Basic Information, Manufacturing Base and Competitors

Table 118. Lotte Aluminum Major Business

Table 119. Lotte Aluminum Aluminum for Liquid Cooling Plate Product and Services

Table 120. Lotte Aluminum Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Lotte Aluminum Recent Developments/Updates

Table 122. Lotte Aluminum Competitive Strengths & Weaknesses

Table 123. Henan Mingtai Al.Industrial Basic Information, Manufacturing Base and Competitors

Table 124. Henan Mingtai Al.Industrial Major Business

Table 125. Henan Mingtai Al.Industrial Aluminum for Liquid Cooling Plate Product and Services

Table 126. Henan Mingtai Al.Industrial Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Henan Mingtai Al.Industrial Recent Developments/Updates

Table 128. Henan Mingtai Al.Industrial Competitive Strengths & Weaknesses

Table 129. Yong Jie New Material Basic Information, Manufacturing Base and Competitors

Table 130. Yong Jie New Material Major Business

Table 131. Yong Jie New Material Aluminum for Liquid Cooling Plate Product and Services

Table 132. Yong Jie New Material Aluminum for Liquid Cooling Plate Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Yong Jie New Material Recent Developments/Updates

Table 134. Yong Jie New Material Competitive Strengths & Weaknesses

Table 135. Global Key Players of Aluminum for Liquid Cooling Plate Upstream (Raw Materials)

Table 136. Global Aluminum for Liquid Cooling Plate Typical Customers

Table 137. Aluminum for Liquid Cooling Plate Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Aluminum for Liquid Cooling Plate Picture

Figure 2. World Aluminum for Liquid Cooling Plate Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Aluminum for Liquid Cooling Plate Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Aluminum for Liquid Cooling Plate Production (2021-2032) & (Tons)

Figure 5. World Aluminum for Liquid Cooling Plate Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Aluminum for Liquid Cooling Plate Production Value Market Share by Region (2021-2032)

Figure 7. World Aluminum for Liquid Cooling Plate Production Market Share by Region (2021-2032)

Figure 8. North America Aluminum for Liquid Cooling Plate Production (2021-2032) & (Tons)

Figure 9. Europe Aluminum for Liquid Cooling Plate Production (2021-2032) & (Tons)

Figure 10. China Aluminum for Liquid Cooling Plate Production (2021-2032) & (Tons)

Figure 11. Japan Aluminum for Liquid Cooling Plate Production (2021-2032) & (Tons)

Figure 12. South Korea Aluminum for Liquid Cooling Plate Production (2021-2032) & (Tons)

Figure 13. Aluminum for Liquid Cooling Plate Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Aluminum for Liquid Cooling Plate Consumption (2021-2032) & (Tons)

Figure 16. World Aluminum for Liquid Cooling Plate Consumption Market Share by Region (2021-2032)

Figure 17. United States Aluminum for Liquid Cooling Plate Consumption (2021-2032) & (Tons)

Figure 18. China Aluminum for Liquid Cooling Plate Consumption (2021-2032) & (Tons)

Figure 19. Europe Aluminum for Liquid Cooling Plate Consumption (2021-2032) & (Tons)

Figure 20. Japan Aluminum for Liquid Cooling Plate Consumption (2021-2032) & (Tons)

Figure 21. South Korea Aluminum for Liquid Cooling Plate Consumption (2021-2032) & (Tons)

Figure 22. ASEAN Aluminum for Liquid Cooling Plate Consumption (2021-2032) & (Tons)

Figure 23. India Aluminum for Liquid Cooling Plate Consumption (2021-2032) & (Tons)

Figure 24. Producer Shipments of Aluminum for Liquid Cooling Plate by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Aluminum for Liquid Cooling Plate Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Aluminum for Liquid Cooling Plate Markets in 2025

Figure 27. United States VS China: Aluminum for Liquid Cooling Plate Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Aluminum for Liquid Cooling Plate Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Aluminum for Liquid Cooling Plate Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Aluminum for Liquid Cooling Plate Production Market Share 2025

Figure 31. China Based Manufacturers Aluminum for Liquid Cooling Plate Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Aluminum for Liquid Cooling Plate Production Market Share 2025

Figure 33. World Aluminum for Liquid Cooling Plate Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Aluminum for Liquid Cooling Plate Production Value Market Share by Type in 2025

Figure 35. Aluminum Alloy 5052

Figure 36. Aluminum Alloy 6061

Figure 37. Others

Figure 38. World Aluminum for Liquid Cooling Plate Production Market Share by Type (2021-2032)

Figure 39. World Aluminum for Liquid Cooling Plate Production Value Market Share by Type (2021-2032)

Figure 40. World Aluminum for Liquid Cooling Plate Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Aluminum for Liquid Cooling Plate Production Value by Process, (USD Million), 2021 & 2025 & 2032

Figure 42. World Aluminum for Liquid Cooling Plate Production Value Market Share by Process in 2025

Figure 43. Rolled Sheet

Figure 44. Extruded Profile

Figure 45. Others

Figure 46. World Aluminum for Liquid Cooling Plate Production Market Share by

Process (2021-2032)

Figure 47. World Aluminum for Liquid Cooling Plate Production Value Market Share by Process (2021-2032)

Figure 48. World Aluminum for Liquid Cooling Plate Average Price by Process (2021-2032) & (US\$/Ton)

Figure 49. World Aluminum for Liquid Cooling Plate Production Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Figure 50. World Aluminum for Liquid Cooling Plate Production Value Market Share by Surface Treatment in 2025

Figure 51. Anodizing

Figure 52. Passivation

Figure 53. Others

Figure 54. World Aluminum for Liquid Cooling Plate Production Market Share by Surface Treatment (2021-2032)

Figure 55. World Aluminum for Liquid Cooling Plate Production Value Market Share by Surface Treatment (2021-2032)

Figure 56. World Aluminum for Liquid Cooling Plate Average Price by Surface Treatment (2021-2032) & (US\$/Ton)

Figure 57. World Aluminum for Liquid Cooling Plate Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Aluminum for Liquid Cooling Plate Production Value Market Share by Application in 2025

Figure 59. Power Battery

Figure 60. Energy Storage

Figure 61. Data Center

Figure 62. Others

Figure 63. World Aluminum for Liquid Cooling Plate Production Market Share by Application (2021-2032)

Figure 64. World Aluminum for Liquid Cooling Plate Production Value Market Share by Application (2021-2032)

Figure 65. World Aluminum for Liquid Cooling Plate Average Price by Application (2021-2032) & (US\$/Ton)

Figure 66. Aluminum for Liquid Cooling Plate Industry Chain

Figure 67. Aluminum for Liquid Cooling Plate Procurement Model

Figure 68. Aluminum for Liquid Cooling Plate Sales Model

Figure 69. Aluminum for Liquid Cooling Plate Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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