

Global Aluminum Heat Transfer Material 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 Heat Transfer Material for Liquid Cooling Plate market size was valued at US\$ 2552 million in 2025 and is forecast to a readjusted size of US\$ 6684 million by 2032 with a CAGR of 14.5% during review period.

Aluminum Heat Transfer Materials for Liquid Cooling Plates are core structural materials used in data center cold plate liquid cooling systems. They are primarily used to manufacture microchannel structures, thermal spreading substrates, and heat dissipation modules, enabling rapid heat transfer and temperature uniformity for CPUs, GPUs, and other high-power chips. The materials include 3xxx, 5xxx, 6xxx aluminum alloys and Al-Si thermal management alloys, mainly in the form of rolled sheets, extruded profiles, and brazing composite sheets. They are widely used in AI servers, high-performance computing systems, and high-density data center cooling architectures. Key upstream inputs include primary aluminum, alloying elements such as Mg, Si, and Mn, and rolling and extrusion equipment. Downstream customers include cold plate manufacturers, liquid cooling system integrators, and server OEMs. Based on ex-factory pricing, global output reached approximately 784,000 tons in 2025, with sales of about 746,000 tons, an average price of around USD 3,330 per ton, and an estimated industry gross margin of 18%~30%.

The global Aluminum Heat Transfer Material for Liquid Cooling Plate market is growing steadily, driven by the rapid expansion of AI computing infrastructure. As GPU and AI chip power consumption continues to increase, data centers are shifting from air cooling toward cold plate liquid cooling, significantly expanding the use of aluminum-based thermal materials in cooling structures. Compared with copper, aluminum offers

advantages in cost, weight, and large-scale manufacturability, making it increasingly important in rack-level and server-level cold plate applications, particularly in large-scale AI server deployments.

From a technology perspective, materials are evolving from conventional aluminum alloys toward high-strength and high-thermal-conductivity composite systems. Microchannel cold plate designs require tighter control of material uniformity, machining precision, and brazing performance, driving development in aluminum-silicon alloys and multilayer composite structures. At the same time, expanded cooling coverage increases requirements for corrosion resistance, long-term coolant compatibility, and lifecycle durability, encouraging advancements in surface treatment and coating technologies.

Demand is primarily driven by AI servers, HPC clusters, and hyperscale data centers. As liquid cooling expands from CPU-only coverage to GPUs, memory, and power modules, material consumption per system increases significantly. In addition, closer collaboration between server OEMs and liquid cooling system providers is shifting material demand from standard sheets toward customized structural components, raising technical barriers for suppliers.

The industry still faces challenges such as alloy consistency control, higher precision processing requirements, and extended validation cycles for compatibility with different cooling fluids. Future growth will depend on continued AI infrastructure expansion, increasing liquid cooling penetration, and ongoing substitution of copper with aluminum-based composite materials in high-power-density applications.

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

Global Aluminum Heat Transfer Material for Liquid Cooling Plate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Aluminum Heat Transfer Material for Liquid Cooling Plate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Aluminum Heat Transfer Material for Liquid Cooling Plate market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

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

- To assess the growth potential for Aluminum Heat Transfer Material 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 Heat Transfer Material 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 Novelis, Hydro Aluminium, Constellium, Alcoa, Kaiser Aluminum, UACJ, Nippon Light Metal, Chalco, Nanshan Aluminum, Shandong Innovation Metal, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Aluminum Heat Transfer Material 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

3xxx Series Aluminum Alloys

5xxx Series Aluminum Alloys

6xxx Series Aluminum Alloys

Other

Market segment by Product Form

Rolled Aluminum Sheet

Extruded Aluminum Profiles

Brazing Aluminum Sheet

Other

Market segment by Thermal Function

Thermal Spreading Materials

Microchannel Structural Materials

Heat Sink Base Materials

Other

Market segment by Application

AI and Computing Infrastructure

Data Centers and Enterprise IT

Others

Major players covered

Novelis

Hydro Aluminium

Constellium

Alcoa

Kaiser Aluminum

UACJ

Nippon Light Metal

Chalco

Nanshan Aluminum

Shandong Innovation Metal

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 Heat Transfer Material for Liquid Cooling Plate product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Aluminum Heat Transfer Material 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 Heat Transfer Material 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 Heat Transfer Material 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 Heat Transfer Material for Liquid Cooling Plate.

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

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