

Global Aluminum Heat Transfer Material for Battery Thermal Management Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aluminum Heat Transfer Material for Battery Thermal Management market size is expected to reach \$ 3109 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

Aluminum Heat Transfer Materials for Battery Thermal Management are aluminum and aluminum-alloy semi-finished products used for cooling and temperature equalization in electric vehicle batteries, stationary energy storage batteries, and other large battery systems. Major products include clad brazing sheet and strip for cooling plates, unclad sheet and strip, tube and folded-tube stock, manifold materials, battery chiller materials, and wide multi-port extruded profiles. Typical material systems include two-layer or multilayer products using 3xxx-series aluminum alloys as the core and 4xxx-series aluminum-silicon alloys as the brazing layer, as well as selected 6xxx-series alloys for cooling plates requiring higher strength, pressure resistance, and structural integration. Key upstream inputs include primary aluminum, recycled aluminum, alloy slabs, silicon, manganese, magnesium, zinc and other alloying elements, rolling lubricants, clad slabs, surface treatment materials, and packaging materials. Major downstream customers include cooling plate and heat exchanger manufacturers, traction and energy storage battery producers, battery pack manufacturers, thermal management system suppliers, vehicle manufacturers, and energy storage system integrators. Principal applications include traction battery cooling plates, battery chillers, energy storage battery cooling plates, cooling tubes, manifolds, and other battery heat exchanger components. On a factory-gate material basis, global effective capacity is estimated at approximately 435,000 tonnes in 2025, with sales volume of around 284,730 tonnes and an average selling price of approximately USD 4,620 per tonne. The industry's average gross margin is estimated at approximately 15%-22%.

The global market for Aluminum Heat Transfer Materials for Battery Thermal Management is currently being shaped by continued traction battery expansion, rapid adoption of liquid cooling in stationary storage, and accelerating material upgrades. The supply base consists of established automotive heat exchanger material producers, advanced aluminum rolling companies, and precision extrusion manufacturers. Most suppliers use existing cladding, rolling, annealing, finishing, or precision extrusion lines for flexible production rather than operating completely dedicated battery thermal management facilities. European, Japanese, and North American suppliers retain strong capabilities in high-strength brazing materials, corrosion engineering, wide-width products, and customer-specific development, while Chinese manufacturers are gaining share through an integrated aluminum processing chain, proximity to major battery clusters, and rapid capacity expansion.

Traction batteries remain the largest source of demand, while fast charging, larger battery packs, higher-voltage platforms, and greater pack integration continue to raise requirements for cooling efficiency, temperature uniformity, and pressure resistance. As battery capacity and charge-discharge rates increase, passive cooling and conventional air cooling are becoming less suitable for high-power applications, supporting wider adoption of liquid cooling and direct refrigerant cooling. Stationary energy storage represents another major growth driver. Rapid global additions of battery storage capacity and the transition from air-cooled to liquid-cooled systems are increasing demand for large cooling plates, manifolds, and corrosion-resistant brazing materials in utility-scale and commercial storage systems.

From a product technology perspective, stamped and brazed cooling plates remain the dominant solution because multilayer products combining 3xxx-series core alloys with 4xxx-series brazing layers offer a favorable balance of cost, formability, and high-volume manufacturability. As battery packs become more structural and highly integrated, the post-braze strength of conventional 3xxx-series materials is becoming a constraint, supporting wider adoption of modified 3xxx-series alloys, high-strength 6xxx-series cores, multilayer sacrificial designs, and pre-applied flux structures. Roll-bonded plates, wide multi-port extrusions, laser-welded cooling plates, and inter-cell cooling tubes will also develop in parallel, changing the relative demand for clad sheet, bare sheet, and extruded profiles.

The main market constraints include pricing pressure transmitted from battery and vehicle manufacturers, aluminum price volatility, declining fabrication premiums, long customer qualification cycles, and the simultaneous commissioning of new capacity.

Advanced cooling plate materials must satisfy demanding requirements for cladding thickness uniformity, stamping performance, resistance to braze sagging, post-braze strength, coolant compatibility, corrosion resistance, and long-term fatigue reliability. Qualification from initial material sampling to battery pack or vehicle platform production can therefore take a considerable period. Alternative designs based on roll bonding, extruded channels, polymer composite flow paths, or direct refrigerant cooling may also change the material mix. Future market share is expected to become increasingly concentrated among suppliers with integrated casting and rolling capabilities, stable cladding processes, regional manufacturing networks, low-carbon material portfolios, and strong joint-development capabilities.

This report studies the global Aluminum Heat Transfer Material for Battery Thermal Management production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aluminum Heat Transfer Material for Battery Thermal Management 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 Heat Transfer Material for Battery Thermal Management that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aluminum Heat Transfer Material for Battery Thermal Management total production and demand, 2021-2032, (Kilotons)

Global Aluminum Heat Transfer Material for Battery Thermal Management total production value, 2021-2032, (USD Million)

Global Aluminum Heat Transfer Material for Battery Thermal Management production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Aluminum Heat Transfer Material for Battery Thermal Management consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Aluminum Heat Transfer Material for Battery Thermal Management domestic production, consumption, key domestic manufacturers and share

Global Aluminum Heat Transfer Material for Battery Thermal Management production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Aluminum Heat Transfer Material for Battery Thermal Management production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Aluminum Heat Transfer Material for Battery Thermal Management production

by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Aluminum Heat Transfer Material for Battery Thermal Management 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 Gr?nges, Novelis, UACJ, Constellium, Speira, AMAG, Kobe Steel, ElvalHalcor, Hulamin, Shanghai Huafo Aluminum Corporation, 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 Heat Transfer Material for Battery Thermal Management market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Heat Transfer Material for Battery Thermal Management Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminum Heat Transfer Material for Battery Thermal Management Market,
Segmentation by Type:

Clad Brazing Materials

Unclad Materials

Global Aluminum Heat Transfer Material for Battery Thermal Management Market,
Segmentation by Product Form:

Sheet and Plate

Strip and Foil

Other

Global Aluminum Heat Transfer Material for Battery Thermal Management Market,
Segmentation by Core Alloy:

3xxx Series

6xxx Series

Other

Global Aluminum Heat Transfer Material for Battery Thermal Management Market,
Segmentation by Application:

Electric Vehicle Batteries

Stationary Energy Storage Batteries

Other

Companies Profiled:

Granges

Novelis

UACJ

Constellium

Speira

AMAG

Kobe Steel

ElvalHalcor

Hulamin

Shanghai Huafon Aluminium Corporation

Yinbang Clad Material

Jiangsu Alcha Aluminium Group

Yongjie New Material

Mingtai Aluminum

Key Questions Answered:

1. How big is the global Aluminum Heat Transfer Material for Battery Thermal Management market?
2. What is the demand of the global Aluminum Heat Transfer Material for Battery

Thermal Management market?

3. What is the year over year growth of the global Aluminum Heat Transfer Material for Battery Thermal Management market?

4. What is the production and production value of the global Aluminum Heat Transfer Material for Battery Thermal Management market?

5. Who are the key producers in the global Aluminum Heat Transfer Material for Battery Thermal Management market?

6. What are the growth factors driving the market demand?

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