

# Global Aluminum Market Outlook to 2027

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## Abstracts

Aluminum, a silvery-grey non-magnetic metal with atomic number 13 and chemical symbol Al, is the third most abundant element on Earth's crust, mainly exists in +3 oxidation state. According to BlueQuark Research & Consulting, the global Aluminum market is expected to witness a significant growth rate during the forecasted period. The increasing usage of Aluminum in the Automobile industry owing to its low cost, decreased carbon dioxide emissions, the need for Electric Vehicles to achieve a light-weighted structure, and a better driving range are expected to drive the Global Aluminum market. In addition to this, Aluminum's high resistance to corrosion and its weight is one-third of steel make it a commendable choice for manufacturing aircraft, which ensures the safety of passengers and leads to the production of robust and fuel-efficient aircraft is projected to drive the Global Aluminum market. Further, Aluminum is used to produce packaging, which protects food and pharmaceuticals from getting spoilt by acting as a total barrier to light, oxygen, germs, moisture, and long-life packaging that allows storing without refrigeration are more in demand is estimated to drive the Global Aluminum market. However, environmental concerns related to mining, tough competition by alternatives, fluctuations in the price of raw materials, explosive in powdered form makes the workplace accident-prone, the health of humans is adversely affected by its exposure causing ailments such as headaches, rashes, asthma, inhalation causing pulmonary fibrosis is expected to hinder the growth of the global market.

Aluminum is ductile, making it suitable for the manufacturing of aircraft and spacecraft components, ships, trains, personal vehicles, its malleability and versatility has brought a revolution in the construction of high-building and skyscrapers along with contribution to energy saving in the industries producing consumer durables such as refrigerators, air conditioners, washing machines, etc.

The automotive industry is the vital consumer of Aluminum and is expected to drive the

Global Aluminum industry. The rising awareness due to excesses pollutants emitted by vehicles and reducing fossil fuels reserves has escalated the use of Aluminum in the construction of components such as engines, transmissions, suspension, wheels, brake components, frames, etc as it maintains weight to fuel consumption balance, the Global market for Aluminum is bound to bolster. In addition to this, the industry heavily relies on Aluminum for its utilization in the large crush zones of the vehicles because it allows shorter stopping distance, and it can create a difference between near miss or deadly collision and is essential for the creation of safer automobiles for the users. According to Tesla, an automobiles manufacturer, its total revenue grew 57% year-on-year in Q3 of 2021, primarily achieved through growth in vehicle delivery, and operating income grew to USD 2 Billion compared to the same period last year. Further, Aluminum is recycled, and its properties remain unchanged, and only 5 percent of energy is utilized compared to extraction from ores, and even an automotive sheet from a vehicle is recycled at the end of its life. Therefore, all these factors have made Aluminum an asset in the global market.

Some of the market's key players are China Power Investment Corporation, Rio Tinto, Alcoa Corporation, Emirates Global Aluminum, China Hongqia Group Ltd., Novelis Inc., among others.

The Asia Pacific region is poised to be the leader in the production and the subsequent consumption of Aluminum, with most of the consumption in countries like China and India. The region comprises some of the most populated countries witnessing industrialization, and these countries' regulatory bodies of these countries to match the residential sector mainly because of the fast-paced growth in the Construction sector. In addition to this, China is the largest producer of electronics and products such as tablets, wires, smartphones, earphones, etc they are manufactured for domestic consumption and exported to other countries worldwide. Further, the densely populated region requires large figures of automobiles for personal and commercial use, along with this, the region is home to the most valuable manufacturers such as Toyota, Nissan, Mazda, Hyundai, Kia, etc and electric vehicles are becoming prolifically popular here as well.

In December 2021, RUSAL, a Russia -based global Aluminum manufacturer, opened the first phase of its low-carbon aluminum production plant, Taishet Aluminum Smelter (TaAZ), in Taishet, Siberia.

In October 2021, Novelis announced the introduction of new design innovations with Generation second of its lightweight electric vehicle (EV) battery enclosure solution for

the rapidly growing Electric vehicle market.

Global Aluminum Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Industrial Aluminum by segmenting based on the type (Primary, Secondary), Processing Method ( Flat Method, Castings, Extrusions, Forgings, Pigments and Powder, Rod and Bar, Steel and Plates, Others), End-User Industry (Automotive, Aerospace, Building and Construction, Foil and Packaging, Others) and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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