

Automotive Aluminum Market By Form (Sheet, Plate, Bar, Tube, Others) , By Vehicle Type (Light Commercial Vehicle, Heavy Commercial Vehicle, Passenger Car, Others) By Application (Hood, Pillars, Hinges, Motors, Sunroof Railings, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Automotive Aluminum Market

The automotive aluminum market was valued at \$26.2 billion in 2023 and is projected to reach \$60.6 billion by 2033, growing at a CAGR of 8.7% from 2024 to 2033.

Automotive aluminum is a versatile, lightweight material used for the manufacturing of various parts of vehicles. It is used to form different types of alloys that exhibit diverse physical properties. Alloy formation contributes to the versatility of automotive aluminum as different alloys are used for the formation of different auto parts of vehicles. Furthermore, aluminum assists in reducing the environmental impact of automobiles as light vehicles require less energy for movement.

Global inclination toward reducing carbon emissions and enhancing fuel efficiency of vehicles is a key driver of the automotive aluminum market. In addition, aluminum retains a natural resistance toward corrosion, making it a preferred material for automobiles owing to low maintenance requirements and extended vehicle lifespan. Furthermore, flexibility of the metal to be molded into complex shapes augments the development of the automotive aluminum market. To enhance the sustainability of automotive aluminum, the establishment of innovative sorting and recycling

infrastructure is trending in the market. Manufacturers are focusing on designing parts and elements that are easy to disassemble for recycling or repurposing. This initiative is promoting the adoption of circular economy in the automotive industry.

However, the high cost of extracting and designing aluminum as compared to other elements such as steel acts as a restraint for the automotive aluminum market. Moreover, lack of automotive aluminum to match the durability and strength of steel in certain applications hampers the market development. On the contrary, upsurge in demand for electric vehicles (EVs) is presenting lucrative opportunities for the market. Aluminum is considerably being used for the creation of battery enclosures for EVs as it complies with critical safety and structural requirements. Swiss international bank, UBS predicts 40% of the total sold vehicles to be EVs by 2030 and by 2040 virtually all the new vehicle purchases to be of EVs. This consistent surge is projected to open new avenues for the automotive aluminum market.

Segment Review

The automotive aluminum market is segmented into form, vehicle type, application, and region. On the basis of form, the market is divided into sheet, plate, bar, tube, and others. Depending on vehicle type, it is classified into light commercial vehicle, heavy commercial vehicle, passenger car, and others. By application, it is categorized into hood, pillars, hinges, motors, sunroof railings, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of form, the sheet segment held a high share of the market in 2023.

Depending on vehicle type, the light commercial vehicle segment acquired a high stake in the market in 2023.

By application, the hood segment dominated the market in 2023.

Region wise, Asia-Pacific is projected to be the highest revenue generator by 2033.

Competition Analysis

The major players of the global automotive aluminum market include Novelis Inc., Arconic, Kaiser Aluminum, Nippon Light Metal Holdings Co., Ltd, Vedanta Aluminium &

Power, BALCO, Dana Limited, Alcoa Corporation, UACJ Corporation, and Rio Tinto. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Analysis of raw material in a product (by %)

Product Life Cycles

Technology Trend Analysis

Go To Market Strategy

New Product Development/ Product Matrix of Key Players

Additional company profiles with specific to client's interest

Historic market data

SWOT Analysis

Key Market Segments

By Form

Sheet

Plate

Bar

Tube

Others

By Vehicle Type

Light Commercial Vehicle

Heavy Commercial Vehicle

Passenger Car

Others

By Application

Hood

Pillars

Hinges

Motors

Sunroof Railings

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Novelis Inc.

Arconic

Kaiser Aluminum

Nippon Light Metal Holdings Co., Ltd

Vedanta Aluminium & Power

BALCO

Dana Limited.

Alcoa Corporation

UACJ Corporation.

Rio Tinto

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