

Aluminum Rolled Products Market by Grade (3xxx, 5xxx, 6xxx), Product Form (Hot Rolled Thick Plate, Hot Rolled Medium Thick Sheet, Cold Rolled Sheet, End-use Industry (Automotive, Aerospace & Defense, Construction), and Region - Global Forecast to 2030

Market Report | 2026-03-11 | 332 pages | MarketsandMarkets

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Report description:

The aluminum rolled products market is projected to reach USD 156.64 billion by 2030 from USD 121.37 billion in 2025, at a CAGR of 5.0% during the forecast period.

<https://mnmimg.marketsandmarkets.com/Images/aluminum-rolled-products-market-img-overview.webp>

The aluminum rolled products market is driven by the increasing demand for lightweight materials in the automotive sector, as manufacturers seek to improve fuel efficiency and reduce emissions. Additionally, growth in construction and infrastructure projects, along with the adoption of aluminum in aerospace and defense applications, is contributing to the market's expansion. The packaging industry's continued growth is also fueling demand for aluminum rolled products. However, the market faces several restraints, including volatility in raw material prices and high production and energy costs, which can affect the overall cost-effectiveness and stability of aluminum rolled product manufacturing.

"6xxx is projected to be the fastest-growing grade in the aluminum rolled products market during the forecast period."

Aluminum alloys in the 6xxx series, which mainly consist of aluminum, magnesium, and silicon, are expanding most rapidly in the aluminum rolled products market by grade due to their multipurpose characteristics, which allow them to be used in a broad range of applications. Such alloys are characterized by high corrosion resistance, high strength-to-weight ratios, and ease of fabrication. 6061 and 6082, 6xxx series alloys, are especially widely used in the automotive, aerospace, and construction sectors. Their lightweight and high mechanical properties make them ideal when strength and lightweight properties are important, e.g.,

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in the automotive industry. Moreover, these alloys are highly resistant to oxidation, which is crucial in industries subject to severe conditions, e.g., marine and infrastructure. The series of aluminum alloys that are gaining popularity especially in industries that need durability and lightweight features are the 6xxx series alloys.

"Hot rolled medium thick sheets (3-15 mm) are projected to be the fastest-growing material in the aluminum rolled products market during the forecast period."

Hot rolled thick medium sheets (3-15 mm) are in high demand because they are highly strong, durable, and versatile for industrial applications. In industries that demand strong and robust material that can support high stresses and environmental conditions, such as construction, transportation, and heavy machinery manufacturing, these thicker sheets are particularly demanded. These sheets undergo hot-rolling to ensure excellent structural integrity and achieve the desired shapes and dimensions. In addition, larger sheets are required in large-scale operations such as aerospace parts, structural parts in buildings, and the production of heavy machinery. With the growing importance of industry in material performance and cost-efficiency, it is becoming impossible to do without hot-rolled thick aluminum sheets, which offer high performance at a comparatively lower weight than steel.

"Automotive is projected to be the fastest-growing end-use industry in the aluminum rolled products market during the forecast period."

The automotive sector is one of the industries with a growing use of aluminum rolled products due to rising demand for lightweight materials to enhance fuel efficiency, reduce carbon emissions, and improve overall vehicle performance. Following stricter regulations on emissions and fuel consumption worldwide, automakers are turning to aluminum to meet these demands, as it offers the right mix of lightness and strength. The capacity to lower the weight of a vehicle and maintain its strength and safety capabilities is an important aspect of aluminum, as it contributes to enhancing the fuel efficiency and increasing the range of electric vehicles (EV). The application of aluminum rolled products in body panels, chassis, structural elements, etc., is increasing in the car industry. Also, the current trend of electric and hybrid cars, which require lightweight materials to boost efficiency and performance, is contributing to increased demand for aluminum rolled products in the automotive industry, making it the most rapidly expanding end-use market.

"Asia Pacific is projected to be the fastest-growing region in the aluminum rolled products market during the forecast period."

The Asia-Pacific region is advancing at the fastest rate in the aluminum rolled products market for several reasons, including rapid industrialization, strong manufacturing sectors, and significant infrastructure investments. The key producers and consumers of aluminum are countries such as China, India, and Japan, with China as the largest producer and consumer. There is a high demand for aluminum in the region, driven by the automotive and construction sectors, which are also being boosted by the emergence of electric vehicles (EVs) that require lightweight materials such as aluminum to be more energy-efficient. Also, the current urbanization process, the drive towards sustainability, and rising consumer expenditure in Southeast Asia are contributing to growth. The demand for aluminum rolled products will be high as APAC is ever-growing in terms of its industrial base and adopting technological changes.

By Company Type: Tier 1: 40%, Tier 2: 30%, and Tier 3: 30%

By Designation: Directors: 30%, Managers: 20%, and Others: 50%

By Region: North America: 20%, Europe: 10%, Asia Pacific: 40%, South America: 10%, and Middle East & Africa 20%

Notes: Others include sales, marketing, and product managers.

Tier 1: >USD 1 Billion; Tier 2: USD 500 million-1 Billion; and Tier 3: <USD 500 million

Companies Covered: Hindalco Industries Ltd. (India), Constellium SE(France), UACJ Corporation (Japan), Granges AB (Sweden), Arconic (US), Speira GmbH (Germany), AMAG Austria Metall AG (Austria), Elvalhalcor (Greece), ALRO S.A. (Romania), Kibar Holding (Turkey), Kaiser Aluminum (US), and Aluminium Duffel (Belgium) are covered in the report.

The study includes an in-depth competitive analysis of these key players in the aluminum rolled products market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This research report categorizes the aluminum rolled products market based on grade (1xxx, 3xxx, 5xxx, 6xxx, 7xxx, 8xxx), product form (Hot Rolled Thick Plates (15-200 mm), Hot Rolled Medium Thick Sheets (3-15 mm), Cold Rolled Sheet (0.25-5 mm), Hot Rolled Coil (3-18 mm), and Cold Rolled Strip/Coil (0.25-5 mm)), and end-use industry (Automotive, Transportation, Aerospace

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& Defense, Tanks & Vessels, Marine, Construction). The report's scope covers detailed information regarding the drivers, restraints, challenges, and opportunities influencing the growth of the aluminum rolled products market. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products offered, and key strategies, including partnerships, acquisitions, product launches, and expansions, associated with the aluminum rolled products market. This report covers a competitive analysis of upcoming startups in the aluminum rolled products market ecosystem.

Reasons to Buy the Report

The report will provide market leaders/new entrants with information on the closest approximations of revenue for the overall aluminum rolled products market and its subsegments. This report will help stakeholders understand the competitive landscape, gain deeper insights into positioning their businesses, and plan effective go-to-market strategies. The report will help stakeholders understand the market pulse and provide information on key drivers, restraints, challenges, and opportunities.

The report provides insights into the following points:

- Analysis of key drivers (Lightweighting demand from the automotive sector, construction and infrastructure growth, adoption in aerospace & defense, packaging industry expansion), restraints (Raw material price volatility, high production and energy costs), opportunities (Electrical Vehicle (EV) growth, recycling and circular economy integration, technological advancements in manufacturing), and challenges (Supply chain and trade volatility, energy dependency, and emissions intensity).
- Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and product & service launches in the aluminum rolled products market.
- Market Development: Comprehensive information about profitable markets - the report analyzes the aluminum rolled products market across varied regions.
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the aluminum rolled products market.
- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players such as Hindalco Industries Ltd. (India), Constellium SE(France), UACJ Corporation (Japan), Granges AB (Sweden), Arconic (US), Speira GmbH (Germany), AMAG Austria Metall AG (Austria), Elvalhacor (Greece), ALRO S.A. (Romania), Kibar Holding (Turkey), Kaiser Aluminum (US), and Aluminium Duffel (Belgium), among others.

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