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Aluminum Plate Market by Grade (2xxx Series, 5xxx Series, 6xxx Series, 7xxx Series), End-use industry (Aerospace & Defense, Marine & Shipbuilding, Heavy Machinery & Industrial Equipment), Product Form, and Region - Global Forecast to 2035

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Abstracts

The aluminum plate market is expected to reach USD 52.95 billion by 2035 from USD 32.71 billion in 2026, at a CAGR of 5.1% during the forecast period.

Globally, the aluminum plate market is experiencing steady growth due to the increasing demand for lightweight, corrosion-resistant materials across several industries. The use of aluminum plates is common in the aerospace, defense, marine, transport, construction, energy, and industrial machinery sectors because of their superior strength-to-weight ratio. The focus on fuel savings, emissions reduction, and material performance is driving the replacement of other traditional materials with aluminum plates in the construction of aircraft, vehicles, ships, and railway transportation. Moreover, investment in infrastructure development, renewable energy projects, and the modernization of the defense industry contributes to market growth. Finally, increased production of aerospace vehicles, expansion of the marine vessel fleet, and the use of new manufacturing technologies increase the demand for aluminum plates.

“Ultra-thick aluminum plates (above 100) are projected to be the fastest-growing product form in the aluminum plate market during the forecast period.”

Ultra-thick aluminum plates are forecast to experience the highest growth rates owing to increasing demand from the aerospace, defense, marine, energy, and heavy industries. The ability of such plates to withstand high loads, resist corrosion, and withstand wear makes them suitable for use in structural applications such as aircraft parts, marine

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vessels, military equipment, energy generation plants, and heavy industries. Increasing investment in the development of defense, aerospace, renewable energy, and heavy industries is expected to further boost demand. Besides, the high strength-to-weight ratio of such plates, compared to other materials, enables system weight reductions without compromising performance.

“7xxx series is projected to be the fastest-growing grade in the aluminum plate market during the forecast period.”

The 7xxx series aluminum plates are projected to grow at the highest rate over the forecast period due to rising demand from the aerospace, defense, transport, and high-performance industries. The alloys have an excellent strength-to-weight ratio and fatigue resistance, along with superior mechanical properties, thus making them suitable for use in airplanes, defense systems, high-speed rails, and engineering applications. Rising expenditure on aircraft manufacturing, defense modernization initiatives, and lightweight transport solutions is majorly propelling the demand for 7xxx series plates. The growing emphasis on fuel efficiency, payload optimization, and structural performance is promoting the use of high-strength alloys as substitutes for heavier traditional materials, allowing their rapid growth in key end-use sectors.

“Aerospace & defense is projected to be the fastest-growing end-use industry in the aluminum plate market during the forecast period.”

The aerospace & defense industry is projected to register the highest growth in the aluminum plate market, owing to the increasing aircraft production, fleet size, and growing defense modernization investments globally. Aluminum plates are widely employed in the production of aircraft fuselage and wing structure, military vehicles, and defense equipment owing to their high strength-to-weight ratio, durability, and corrosion resistance. Airbus Global Market Forecast 2025–2044 projects that the world in-service fleet will nearly double from 24,730 aircraft in 2024 to 49,210 aircraft in 2044, requiring 43,420 new passenger and freighter aircraft over the next two decades (Source: Airbus Global Market Forecast 2025–2044). The demand for aluminum plates is expected to grow considerably owing to rapid growth in commercial aviation, rising defense spending, and aerospace manufacturing.

“The Middle East & Africa is projected to be the fastest-growing region in the aluminum plate market during the forecast period.”

The Middle East & Africa region is expected to be the fastest-growing region in the

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global aluminum plate market during the forecast period, driven by extensive infrastructure development, diversified industries, and growth in the transportation and defense segments. The Middle East & Africa region is emerging as one of the most dynamic regions for aluminum plate consumption due to various development initiatives such as Saudi Vision 2030, UAE Vision 2031, Oman Vision 2040, Kuwait Vision 2035, and Bahrain Economic Vision 2030. These development initiatives are leading to increased investments in mega infrastructure projects, smart city projects, airports, ports, industrial parks, housing projects, and defense localization programs. For instance, Saudi Arabia alone aims to invest about USD 1 trillion in construction projects by 2030, while the UAE continues to make major investments in transportation, aerospace, and advanced manufacturing through airports and industrial parks.
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.

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