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Aluminum: United States

September 2021



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About This Report

Scope

This report forecasts to 2021 and 2025 US aluminum demand and production in metric tons. Total demand is segmented by market in terms of:

- transport
- containers and packaging
- building and construction
- electrical
- other markets such as consumer durables, machinery, and cookware

Total demand in nominal US dollars at the producer level is also forecast to 2021 and 2025.

Total production is segmented by type as follows:

- primary
- secondary

To illustrate historical trends, total demand, total production, the various segments, and trade are provided in annual series from 2010 to 2020.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Aluminum: United States (FF65010) represents the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 10 | NAICS & SIC Codes Related to Aluminum

NAICS/SCIAN 2017		SIC	
North American Industry Classification System		Standard Industrial Classification	
331313	Alumina Refining and Primary Aluminum Production	2819	Industrial Inorganic Chemicals, NEC
331314	Secondary Smelting and Alloying of Aluminum	3334	Primary Production of Aluminum
331315	Aluminum Sheet, Plate, and Foil Manufacturing	3341	Secondary Smelting and Refining of Nonferrous Metals
331318	Other Aluminum Rolling, Drawing, and Extruding	3353	Aluminum Sheet, Plate, and Foil
332431	Metal Can Manufacturing	3354	Aluminum Extruded Products
		3411	Metal Cans

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of

datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Pipe Products & Markets

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Global Mining Equipment

Industrial Castings: United States

Metal Roofing: United States

Metal Services: United States

Motor Vehicles: United States

Packaging: United States

Recovered Metals: United States

Sheet Metal: United States

Freedonia Custom Research

Trade Publications

Aluminium Insider

American Metal Market

Engineering & Mining Journal

Industrial Minerals

Platts Metals Daily

Recycling Today

Agencies & Associations

The Aluminum Association

Aluminum Extruders Council

American Chemistry Council

Can Manufacturers Institute

Institute of Scrap Recycling Industries

International Aluminium Institute

National Highway Traffic Safety Administration

United States Environmental Protection Agency

United States Geological Survey

United States International Trade Commission