

Global Aluminium-Scandium Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Aluminium-Scandium market size was valued at US\$ 88.8 million in 2025 and is forecast to a readjusted size of US\$ 120 million by 2032 with a CAGR of 4.5% during review period.

Aluminium-scandium master alloys are pre-alloyed materials, typically Al-2%Sc, supplied as waffle ingots, rods, wires or powders. They are added in small percentages to aluminium melts to produce ultra-high performance alloys with improved strength, weldability and thermal stability. Across aerospace structures, defence hardware and additive manufacturing feedstocks, scandium's role is to promote fine Al₃Sc precipitates that stabilize microstructure at elevated temperatures and suppress hot cracking during welding. As a result, the alloy enables lightweight designs and higher fatigue margins in components where failure is not an option. Commercial offerings from established players demonstrate that Al-Sc is a distinct traded product separate from downstream wrought parts or services, and is sold on an EXW basis to foundries and billet casters.

Upstream, refined scandium oxides are produced in small volumes from secondary or by-product streams. Public statistics indicate global scandium consumption around 30 to 40 metric tons of oxide per year, with aluminium-scandium alloys and solid oxide fuel cells as the principal uses. New oxide capacity has been brought online in Canada and is planned to expand further, while China remains the leading producer. These upstream realities cap short-term availability of scandium metal units and explain why Al-Sc master alloy supply is highly concentrated around a handful of credible producers, complemented by several regional channels. Downstream, buyers are airframe and engine OEM supply chains, prime defence contractors, automotive lightweighting

programs, and additive manufacturing service bureaus seeking high-strength aluminium powders and wires. Typical procurement is through framework orders and qualified vendor lists rather than spot purchases, reflecting the certification effort required in aerospace and defence.

In the current market, global production is around 855 metric tons of Al-2%Sc equivalent, with an average selling price of about 98,000 USD per metric ton on an EXW basis. The supply side is led by a few producers with verified product lines and technical data for Al-2%Sc master alloys, and the long tail consists of distributors and specialty materials firms serving research and industrial customers. On structure, the top suppliers together command approximately two-thirds or more of global revenue, consistent with a concentrated niche where technical qualification, scandium availability and powder or wire capabilities are meaningful entry barriers. Demand is anchored in North America, Europe and China, with additive manufacturing growing quickly across aerospace and defence use cases. Looking out to 2025–2031, the trajectory depends on three forces: upstream oxide expansions and recovery projects, qualification of lean-Sc alloys that spread scarce scandium further, and the scaling of AM feedstocks for certified parts. Bottlenecks remain in scandium unit availability and the time required for aerospace certification cycles, but incremental investments suggest a gradual rise in volumes and a stable to modestly lower ASP range as supply broadens.

This report is a detailed and comprehensive analysis for global Aluminium-Scandium market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Sc Content and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Aluminium-Scandium market size and forecasts, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/Kg), 2021-2032

Global Aluminium-Scandium market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/Kg), 2021-2032

Global Aluminium-Scandium market size and forecasts, by Sc Content and by

Application, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/Kg), 2021-2032

Global Aluminium-Scandium market shares of main players, shipments in revenue (\$ Million), sales quantity (MT), and ASP (USD/Kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Aluminium-Scandium

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Aluminium-Scandium market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RUSA, AMG Aluminum, KBM Affilips, Hunan Oriental Scandium, Lomon Billions Group, Huizhou Top Metal Materials, MCC New Energy Technology, Zhengzhou Light Alloy Technology, Xi'an Function Materials Tech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Aluminium-Scandium market is split by Sc Content and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Sc Content, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Sc Content

Al-2%Sc

High-Sc Master Alloys (>2%)

Other

Market segment by Form

Waffle Ingot

Rod & Wire

Powder

Other Forms

Market segment by Process Route

Direct Fusion

Aluminothermic from Salts/Oxides

Metallothermic/Hybrid

Electro-winning Variants

Market segment by Application

Aerospace

Defense

Additive Manufacturing

Automotive & Transportation

Electronics & Energy

Other Industrial

Major players covered

RUSA

AMG Aluminum

KBM Affilips

Hunan Oriental Scandium

Lomon Billions Group

Huizhou Top Metal Materials

MCC New Energy Technology

Zhengzhou Light Alloy Technology

Xi'an Function Materials Tech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Aluminium-Scandium product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aluminium-Scandium, with price, sales quantity, revenue, and global market share of Aluminium-Scandium from 2021 to 2026.

Chapter 3, the Aluminium-Scandium competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aluminium-Scandium breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Sc Content and by Application, with sales market share and growth rate by Sc Content, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Aluminium-Scandium market forecast, by regions, by Sc Content, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Aluminium-Scandium.

Chapter 14 and 15, to describe Aluminium-Scandium sales channel, distributors, customers, research findings and conclusion.

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