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Global Scrap-based Aluminum Alloy 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 Scrap-based Aluminum Alloy market size was valued at US$ 129597 million in 2025 and is forecast to a readjusted size of US$ 153650 million by 2032 with a CAGR of -0.5% during review period.

In 2025, global production of Scrap-based Aluminum Alloy reached 36.36 million MT, with the global average market price at approximately 3,464 USD/MT, production capacity at around 64.93 million MT, and the industry average gross margin at 10.2%.

The main upstream raw materials include scrap aluminum and other aluminum-containing recycled materials.

Major upstream suppliers include Novelis, Norsk Hydro, UACJ, Constellium, Hebei Sitong New Metal Material, and others.

Downstream customers include BMW, Toyota, Philips, SAMSUNG, Airbus, and others.

Scrap-based Aluminum Alloy refers to aluminum-based alloy materials produced primarily from scrap aluminum resources, industrial scrap, end-of-life automotive aluminum components, used architectural aluminum profiles, used aluminum packaging materials, and other aluminum-containing waste materials. After recycling, sorting, pretreatment, or raw material processing, these materials are further processed through remelting, refining, impurity removal, composition adjustment, alloying, ingot casting, or molten aluminum supply.

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Scrap-based Aluminum Alloy is not simply produced by remelting scrap aluminum. Instead, it requires raw material blending, impurity control, and alloy composition adjustment based on downstream application requirements. Scrap aluminum from different sources varies in aluminum content, the proportions of elements such as silicon, copper, magnesium, zinc, and iron, as well as the presence of paint, plastics, iron impurities, and other contaminants. Therefore, manufacturers need to carry out sorting and pretreatment, remelting and refining, degassing and slag removal, spectral analysis, alloying element addition, and composition correction to ensure that the final products meet the corresponding alloy grade standards or customized customer requirements.

As a result, the core competitiveness of Scrap-based Aluminum Alloy manufacturers lies not only in their ability to secure scrap aluminum resources, but also in their smelting technology, composition control capability, product quality stability, and customer certification capabilities.

As a key component of green, low-carbon materials, Scrap-based Aluminum Alloys are driving the global aluminum industry's transition from a resource-consuming model to a resource-circular one. Driven by advancing global carbon reduction policies, stricter requirements for the utilization of recycled resources, and surging demand for low-carbon materials in sectors such as automotive, new energy, construction, and packaging, the recycled aluminum alloy market is entering a phase of accelerated growth. Compared to traditional primary aluminum production, the recycled aluminum alloy process?leveraging technologies for scrap recovery, sorting, melting, refining, and alloying?significantly reduces energy consumption and carbon emissions while offering cost advantages; consequently, it holds high strategic value for manufacturing enterprises building green supply chains.

On the demand side, the growth of the new energy vehicle (NEV) industry serves as a major engine for the recycled aluminum alloy market. The need for lightweight NEVs is driving increased adoption of aluminum alloys in vehicle body structural components, battery trays, wheels, and other parts, while the vast quantities of scrap aluminum generated at the end of vehicle lifecycles further facilitate the maturation of the recycled aluminum supply system. Additionally, growing emphasis on low-carbon material certification in sectors such as photovoltaic mounting systems, rail transit, construction profiles, and consumer electronics is prompting downstream enterprises to proactively source aluminum alloys with recycled content. Looking ahead, as the EU?s Carbon Border Adjustment Mechanism (CBAM), automotive carbon footprint management, and corporate ESG requirements evolve, recycled aluminum alloys will shift from being

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merely cost-optimization materials to becoming strategic assets essential for achieving green manufacturing.

On the supply side, the core competitiveness of the recycled aluminum alloy industry will hinge on capabilities regarding scrap sourcing, intelligent sorting technology, impurity control, and alloy composition stability. Currently, the production of high-quality recycled aluminum alloys faces challenges such as complex scrap sources, the mixing of different alloy grades, and the difficulty of completely removing impurity elements?issues that are particularly critical in high-performance application areas like automotive body sheets and high-end structural components, where material consistency and reliability are paramount. Therefore, enterprises equipped with advanced sorting machinery, digitalized recovery systems, and closed-loop supply chain capabilities will secure a competitive advantage in the future. The future development of the recycled aluminum alloy market will primarily focus on three areas: first, upgrading from traditional scrap aluminum recovery to a "closed-loop recycling" model?such as establishing scrap recovery and reuse systems between automotive manufacturers and aluminum processors; second, enhancing the performance of recycled aluminum materials through AI-driven sorting, automated smelting, and precise alloy composition control; and third, expanding into high-value-added applications, including structural components for new energy vehicles, aerospace parts, and high-end electronics. Overall, recycled aluminum alloy represents not only a vital pathway for the green development of the aluminum industry but also a key foundational material for future low-carbon manufacturing systems, offering significant long-term growth potential and high investment value.

This report is a detailed and comprehensive analysis for global Scrap-based Aluminum Alloy market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Scrap-based Aluminum Alloy market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Scrap-based Aluminum Alloy market size and forecasts by region and country, in

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consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Scrap-based Aluminum Alloy market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/Ton), 2021-2032

Global Scrap-based Aluminum Alloy market shares of main players, shipments in revenue ($ Million), sales quantity (Kilotons), and ASP (US$/Ton), 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 Scrap-based Aluminum Alloy

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 Scrap-based Aluminum Alloy 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 Novelis, Norsk Hydro, UACJ, Lizhong Sitong Light Alloys, Chongqing Shunbo Aluminum, Constellium, Toyota Tsusho, Chongqing Shunbo Aluminum Alloy, CSMET, Henan Mingtai Aluminum.Industrial, etc.

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

Market Segmentation

Scrap-based Aluminum Alloy market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

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Casting

Rolling

Extrusion

Forging

Others

Market segment by Product Form

Aluminum Alloy Ingot

Aluminum Alloy Rod

Aluminum Alloy Billet

Others

Market segment by Recycled Content

Low Recycled Content

Medium Recycled Content

High Recycled Content

Market segment by Application

Automotive

Construction Materials

Equipment

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Hardware

Home Appliances

Consumer Goods

Others

Major players covered

Novelis

Norsk Hydro

UACJ

Lizhong Sitong Light Alloys

Chongqing Shunbo Aluminum

Constellium

Toyota Tsusho

Chongqing Shunbo Aluminum Alloy

CSMET

Henan Mingtai Aluminum.Industrial

Kaiser Aluminum

Sigma Group

INNOVATION NEW MATERIAL TECHNOLOGY

Guangxi Pinglu Group

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Raffmetal

Matalco

Zhejiang Wantai Aluminum

Yiqiu Metal Resource Regeneration

Speira

Shanghai Yongmaotai Automotive Technology

Zhaoqing Dazheng Aluminum Industry

Chiho Environmental Group

Shandong Nanshan Aluminium

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 Scrap-based Aluminum Alloy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Scrap-based Aluminum Alloy, with price,

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sales quantity, revenue, and global market share of Scrap-based Aluminum Alloy from 2021 to 2026.

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

Chapter 4, the Scrap-based Aluminum Alloy 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 Type and by Application, with sales market share and growth rate by Type, 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 Scrap-based Aluminum Alloy market forecast, by regions, by Type, 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 Scrap-based Aluminum Alloy.

Chapter 14 and 15, to describe Scrap-based Aluminum Alloy sales channel, distributors, customers, research findings and conclusion.

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Contents

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2 MANUFACTURERS PROFILES

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3 COMPETITIVE ENVIRONMENT: SCRAP-BASED ALUMINUM ALLOY BY MANUFACTURER

4 CONSUMPTION ANALYSIS BY REGION

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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