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Global Scrap-based Aluminum Alloy Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Scrap-based Aluminum Alloy market size is expected to reach $ 153650 million by 2032, rising at a market growth of -0.5% CAGR during the forecast period (2026-2032).

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.

Scrap-based Aluminum Alloy is not simply produced by remelting scrap aluminum. Instead, it requires raw material blending, impurity control, and alloy composition

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

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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 studies the global Scrap-based Aluminum Alloy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Scrap-based Aluminum Alloy and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Scrap-based Aluminum Alloy that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Scrap-based Aluminum Alloy total production and demand, 2021-2032, (Kilotons)
Global Scrap-based Aluminum Alloy total production value, 2021-2032, (USD Million)
Global Scrap-based Aluminum Alloy production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Scrap-based Aluminum Alloy consumption by region & country, CAGR,

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2021-2032 & (Kilotons)
U.S. VS China: Scrap-based Aluminum Alloy domestic production, consumption, key domestic manufacturers and share
Global Scrap-based Aluminum Alloy production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Scrap-based Aluminum Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global Scrap-based Aluminum Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Scrap-based Aluminum Alloy market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Scrap-based Aluminum Alloy market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Scrap-based Aluminum Alloy Market, By Region:

United States

China

Europe

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Japan

South Korea

ASEAN

India

Rest of World

Global Scrap-based Aluminum Alloy Market, Segmentation by Type:

Casting

Rolling

Extrusion

Forging

Others

Global Scrap-based Aluminum Alloy Market, Segmentation by Product Form:

Aluminum Alloy Ingot

Aluminum Alloy Rod

Aluminum Alloy Billet

Others

Global Scrap-based Aluminum Alloy Market, Segmentation by Recycled Content:

Low Recycled Content

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Medium Recycled Content

High Recycled Content

Global Scrap-based Aluminum Alloy Market, Segmentation by Application:

Automotive

Construction Materials

Equipment

Hardware

Home Appliances

Consumer Goods

Others

Companies Profiled:

Novelis

Norsk Hydro

UACJ

Lizhong Sitong Light Alloys

Chongqing Shunbo Aluminum

Constellium

Toyota Tsusho

Chongqing Shunbo Aluminum Alloy

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CSMET

Henan Mingtai Aluminum.Industrial

Kaiser Aluminum

Sigma Group

INNOVATION NEW MATERIAL TECHNOLOGY

Guangxi Pinglu Group

Raffmetal

Matalco

Zhejiang Wantai Aluminum

Yiqiu Metal Resource Regeneration

Speira

Shanghai Yongmaotai Automotive Technology

Zhaoqing Dazheng Aluminum Industry

Chiho Environmental Group

Shandong Nanshan Aluminium

Key Questions Answered:
1. How big is the global Scrap-based Aluminum Alloy market?
2. What is the demand of the global Scrap-based Aluminum Alloy market?
3. What is the year over year growth of the global Scrap-based Aluminum Alloy market?
4. What is the production and production value of the global Scrap-based Aluminum Alloy market?
5. Who are the key producers in the global Scrap-based Aluminum Alloy market?

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6. What are the growth factors driving the market demand?

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Contents

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

4 UNITED STATES VS CHINA VS REST OF THE WORLD

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5 MARKET ANALYSIS BY TYPE

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6 MARKET ANALYSIS BY PRODUCT FORM

7 MARKET ANALYSIS BY RECYCLED CONTENT

8 MARKET ANALYSIS BY APPLICATION

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9 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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