

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

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.

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,

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

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

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

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?

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

Contents

1 SUPPLY SUMMARY

- 1.1 Scrap-based Aluminum Alloy Introduction
- 1.2 World Scrap-based Aluminum Alloy Supply & Forecast
 - 1.2.1 World Scrap-based Aluminum Alloy Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Scrap-based Aluminum Alloy Production (2021-2032)
 - 1.2.3 World Scrap-based Aluminum Alloy Pricing Trends (2021-2032)
- 1.3 World Scrap-based Aluminum Alloy Production by Region (Based on Production Site)
 - 1.3.1 World Scrap-based Aluminum Alloy Production Value by Region (2021-2032)
 - 1.3.2 World Scrap-based Aluminum Alloy Production by Region (2021-2032)
 - 1.3.3 World Scrap-based Aluminum Alloy Average Price by Region (2021-2032)
 - 1.3.4 North America Scrap-based Aluminum Alloy Production (2021-2032)
 - 1.3.5 Europe Scrap-based Aluminum Alloy Production (2021-2032)
 - 1.3.6 China Scrap-based Aluminum Alloy Production (2021-2032)
 - 1.3.7 Japan Scrap-based Aluminum Alloy Production (2021-2032)
 - 1.3.8 India Scrap-based Aluminum Alloy Production (2021-2032)
 - 1.3.9 Southeast Asia Scrap-based Aluminum Alloy Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Scrap-based Aluminum Alloy Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Scrap-based Aluminum Alloy Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Scrap-based Aluminum Alloy Demand (2021-2032)
- 2.2 World Scrap-based Aluminum Alloy Consumption by Region
 - 2.2.1 World Scrap-based Aluminum Alloy Consumption by Region (2021-2026)
 - 2.2.2 World Scrap-based Aluminum Alloy Consumption Forecast by Region (2027-2032)
- 2.3 United States Scrap-based Aluminum Alloy Consumption (2021-2032)
- 2.4 China Scrap-based Aluminum Alloy Consumption (2021-2032)
- 2.5 Europe Scrap-based Aluminum Alloy Consumption (2021-2032)
- 2.6 Japan Scrap-based Aluminum Alloy Consumption (2021-2032)
- 2.7 South Korea Scrap-based Aluminum Alloy Consumption (2021-2032)
- 2.8 ASEAN Scrap-based Aluminum Alloy Consumption (2021-2032)
- 2.9 India Scrap-based Aluminum Alloy Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Scrap-based Aluminum Alloy Production Value by Manufacturer (2021-2026)
- 3.2 World Scrap-based Aluminum Alloy Production by Manufacturer (2021-2026)
- 3.3 World Scrap-based Aluminum Alloy Average Price by Manufacturer (2021-2026)
- 3.4 Scrap-based Aluminum Alloy Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Scrap-based Aluminum Alloy Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Scrap-based Aluminum Alloy in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Scrap-based Aluminum Alloy in 2025
- 3.6 Scrap-based Aluminum Alloy Market: Overall Company Footprint Analysis
 - 3.6.1 Scrap-based Aluminum Alloy Market: Region Footprint
 - 3.6.2 Scrap-based Aluminum Alloy Market: Company Product Type Footprint
 - 3.6.3 Scrap-based Aluminum Alloy Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Scrap-based Aluminum Alloy Production Value Comparison
 - 4.1.1 United States VS China: Scrap-based Aluminum Alloy Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Scrap-based Aluminum Alloy Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Scrap-based Aluminum Alloy Production Comparison
 - 4.2.1 United States VS China: Scrap-based Aluminum Alloy Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Scrap-based Aluminum Alloy Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Scrap-based Aluminum Alloy Consumption Comparison
 - 4.3.1 United States VS China: Scrap-based Aluminum Alloy Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Scrap-based Aluminum Alloy Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Scrap-based Aluminum Alloy Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Scrap-based Aluminum Alloy Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Scrap-based Aluminum Alloy Production Value (2021-2026)

4.4.3 United States Based Manufacturers Scrap-based Aluminum Alloy Production (2021-2026)

4.5 China Based Scrap-based Aluminum Alloy Manufacturers and Market Share

4.5.1 China Based Scrap-based Aluminum Alloy Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Scrap-based Aluminum Alloy Production Value (2021-2026)

4.5.3 China Based Manufacturers Scrap-based Aluminum Alloy Production (2021-2026)

4.6 Rest of World Based Scrap-based Aluminum Alloy Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Scrap-based Aluminum Alloy Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Scrap-based Aluminum Alloy Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Scrap-based Aluminum Alloy Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Scrap-based Aluminum Alloy Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Casting

5.2.2 Rolling

5.2.3 Extrusion

5.2.4 Forging

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World Scrap-based Aluminum Alloy Production by Type (2021-2032)

5.3.2 World Scrap-based Aluminum Alloy Production Value by Type (2021-2032)

5.3.3 World Scrap-based Aluminum Alloy Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World Scrap-based Aluminum Alloy Market Size Overview by Product Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Aluminum Alloy Ingot

6.2.2 Aluminum Alloy Rod

6.2.3 Aluminum Alloy Billet

6.2.4 Others

6.3 Market Segment by Product Form

6.3.1 World Scrap-based Aluminum Alloy Production by Product Form (2021-2032)

6.3.2 World Scrap-based Aluminum Alloy Production Value by Product Form (2021-2032)

6.3.3 World Scrap-based Aluminum Alloy Average Price by Product Form (2021-2032)

7 MARKET ANALYSIS BY RECYCLED CONTENT

7.1 World Scrap-based Aluminum Alloy Market Size Overview by Recycled Content: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Recycled Content

7.2.1 Low Recycled Content

7.2.2 Medium Recycled Content

7.2.3 High Recycled Content

7.3 Market Segment by Recycled Content

7.3.1 World Scrap-based Aluminum Alloy Production by Recycled Content (2021-2032)

7.3.2 World Scrap-based Aluminum Alloy Production Value by Recycled Content (2021-2032)

7.3.3 World Scrap-based Aluminum Alloy Average Price by Recycled Content (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Scrap-based Aluminum Alloy Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Construction Materials

8.2.3 Equipment

8.2.4 Hardware

8.2.5 Home Appliances

8.2.6 Consumer Goods

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World Scrap-based Aluminum Alloy Production by Application (2021-2032)

8.3.2 World Scrap-based Aluminum Alloy Production Value by Application (2021-2032)

8.3.3 World Scrap-based Aluminum Alloy Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Novelis

9.1.1 Novelis Details

9.1.2 Novelis Major Business

9.1.3 Novelis Scrap-based Aluminum Alloy Product and Services

9.1.4 Novelis Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Novelis Recent Developments/Updates

9.1.6 Novelis Competitive Strengths & Weaknesses

9.2 Norsk Hydro

9.2.1 Norsk Hydro Details

9.2.2 Norsk Hydro Major Business

9.2.3 Norsk Hydro Scrap-based Aluminum Alloy Product and Services

9.2.4 Norsk Hydro Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Norsk Hydro Recent Developments/Updates

9.2.6 Norsk Hydro Competitive Strengths & Weaknesses

9.3 UACJ

9.3.1 UACJ Details

9.3.2 UACJ Major Business

9.3.3 UACJ Scrap-based Aluminum Alloy Product and Services

9.3.4 UACJ Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 UACJ Recent Developments/Updates

9.3.6 UACJ Competitive Strengths & Weaknesses

9.4 Lizhong Sitong Light Alloys

9.4.1 Lizhong Sitong Light Alloys Details

9.4.2 Lizhong Sitong Light Alloys Major Business

- 9.4.3 Lizhong Sitong Light Alloys Scrap-based Aluminum Alloy Product and Services
- 9.4.4 Lizhong Sitong Light Alloys Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Lizhong Sitong Light Alloys Recent Developments/Updates
- 9.4.6 Lizhong Sitong Light Alloys Competitive Strengths & Weaknesses
- 9.5 Chongqing Shunbo Aluminum
 - 9.5.1 Chongqing Shunbo Aluminum Details
 - 9.5.2 Chongqing Shunbo Aluminum Major Business
 - 9.5.3 Chongqing Shunbo Aluminum Scrap-based Aluminum Alloy Product and Services
 - 9.5.4 Chongqing Shunbo Aluminum Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Chongqing Shunbo Aluminum Recent Developments/Updates
 - 9.5.6 Chongqing Shunbo Aluminum Competitive Strengths & Weaknesses
- 9.6 Constellium
 - 9.6.1 Constellium Details
 - 9.6.2 Constellium Major Business
 - 9.6.3 Constellium Scrap-based Aluminum Alloy Product and Services
 - 9.6.4 Constellium Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Constellium Recent Developments/Updates
 - 9.6.6 Constellium Competitive Strengths & Weaknesses
- 9.7 Toyota Tsusho
 - 9.7.1 Toyota Tsusho Details
 - 9.7.2 Toyota Tsusho Major Business
 - 9.7.3 Toyota Tsusho Scrap-based Aluminum Alloy Product and Services
 - 9.7.4 Toyota Tsusho Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Toyota Tsusho Recent Developments/Updates
 - 9.7.6 Toyota Tsusho Competitive Strengths & Weaknesses
- 9.8 Chongqing Shunbo Aluminum Alloy
 - 9.8.1 Chongqing Shunbo Aluminum Alloy Details
 - 9.8.2 Chongqing Shunbo Aluminum Alloy Major Business
 - 9.8.3 Chongqing Shunbo Aluminum Alloy Scrap-based Aluminum Alloy Product and Services
 - 9.8.4 Chongqing Shunbo Aluminum Alloy Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Chongqing Shunbo Aluminum Alloy Recent Developments/Updates
 - 9.8.6 Chongqing Shunbo Aluminum Alloy Competitive Strengths & Weaknesses

9.9 CSMET

9.9.1 CSMET Details

9.9.2 CSMET Major Business

9.9.3 CSMET Scrap-based Aluminum Alloy Product and Services

9.9.4 CSMET Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 CSMET Recent Developments/Updates

9.9.6 CSMET Competitive Strengths & Weaknesses

9.10 Henan Mingtai Aluminum.Industrial

9.10.1 Henan Mingtai Aluminum.Industrial Details

9.10.2 Henan Mingtai Aluminum.Industrial Major Business

9.10.3 Henan Mingtai Aluminum.Industrial Scrap-based Aluminum Alloy Product and Services

9.10.4 Henan Mingtai Aluminum.Industrial Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Henan Mingtai Aluminum.Industrial Recent Developments/Updates

9.10.6 Henan Mingtai Aluminum.Industrial Competitive Strengths & Weaknesses

9.11 Kaiser Aluminum

9.11.1 Kaiser Aluminum Details

9.11.2 Kaiser Aluminum Major Business

9.11.3 Kaiser Aluminum Scrap-based Aluminum Alloy Product and Services

9.11.4 Kaiser Aluminum Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Kaiser Aluminum Recent Developments/Updates

9.11.6 Kaiser Aluminum Competitive Strengths & Weaknesses

9.12 Sigma Group

9.12.1 Sigma Group Details

9.12.2 Sigma Group Major Business

9.12.3 Sigma Group Scrap-based Aluminum Alloy Product and Services

9.12.4 Sigma Group Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Sigma Group Recent Developments/Updates

9.12.6 Sigma Group Competitive Strengths & Weaknesses

9.13 INNOVATION NEW MATERIAL TECHNOLOGY

9.13.1 INNOVATION NEW MATERIAL TECHNOLOGY Details

9.13.2 INNOVATION NEW MATERIAL TECHNOLOGY Major Business

9.13.3 INNOVATION NEW MATERIAL TECHNOLOGY Scrap-based Aluminum Alloy Product and Services

9.13.4 INNOVATION NEW MATERIAL TECHNOLOGY Scrap-based Aluminum Alloy

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 INNOVATION NEW MATERIAL TECHNOLOGY Recent Developments/Updates

9.13.6 INNOVATION NEW MATERIAL TECHNOLOGY Competitive Strengths & Weaknesses

9.14 Guangxi Pinglu Group

9.14.1 Guangxi Pinglu Group Details

9.14.2 Guangxi Pinglu Group Major Business

9.14.3 Guangxi Pinglu Group Scrap-based Aluminum Alloy Product and Services

9.14.4 Guangxi Pinglu Group Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Guangxi Pinglu Group Recent Developments/Updates

9.14.6 Guangxi Pinglu Group Competitive Strengths & Weaknesses

9.15 Raffmetal

9.15.1 Raffmetal Details

9.15.2 Raffmetal Major Business

9.15.3 Raffmetal Scrap-based Aluminum Alloy Product and Services

9.15.4 Raffmetal Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Raffmetal Recent Developments/Updates

9.15.6 Raffmetal Competitive Strengths & Weaknesses

9.16 Matalco

9.16.1 Matalco Details

9.16.2 Matalco Major Business

9.16.3 Matalco Scrap-based Aluminum Alloy Product and Services

9.16.4 Matalco Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Matalco Recent Developments/Updates

9.16.6 Matalco Competitive Strengths & Weaknesses

9.17 Zhejiang Wantai Aluminum

9.17.1 Zhejiang Wantai Aluminum Details

9.17.2 Zhejiang Wantai Aluminum Major Business

9.17.3 Zhejiang Wantai Aluminum Scrap-based Aluminum Alloy Product and Services

9.17.4 Zhejiang Wantai Aluminum Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Zhejiang Wantai Aluminum Recent Developments/Updates

9.17.6 Zhejiang Wantai Aluminum Competitive Strengths & Weaknesses

9.18 Yiqiu Metal Resource Regeneration

9.18.1 Yiqiu Metal Resource Regeneration Details

- 9.18.2 Yiqiu Metal Resource Regeneration Major Business
- 9.18.3 Yiqiu Metal Resource Regeneration Scrap-based Aluminum Alloy Product and Services
- 9.18.4 Yiqiu Metal Resource Regeneration Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Yiqiu Metal Resource Regeneration Recent Developments/Updates
- 9.18.6 Yiqiu Metal Resource Regeneration Competitive Strengths & Weaknesses
- 9.19 Speira
 - 9.19.1 Speira Details
 - 9.19.2 Speira Major Business
 - 9.19.3 Speira Scrap-based Aluminum Alloy Product and Services
 - 9.19.4 Speira Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Speira Recent Developments/Updates
 - 9.19.6 Speira Competitive Strengths & Weaknesses
- 9.20 Shanghai Yongmaotai Automotive Technology
 - 9.20.1 Shanghai Yongmaotai Automotive Technology Details
 - 9.20.2 Shanghai Yongmaotai Automotive Technology Major Business
 - 9.20.3 Shanghai Yongmaotai Automotive Technology Scrap-based Aluminum Alloy Product and Services
 - 9.20.4 Shanghai Yongmaotai Automotive Technology Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Shanghai Yongmaotai Automotive Technology Recent Developments/Updates
 - 9.20.6 Shanghai Yongmaotai Automotive Technology Competitive Strengths & Weaknesses
- 9.21 Zhaoqing Dazheng Aluminum Industry
 - 9.21.1 Zhaoqing Dazheng Aluminum Industry Details
 - 9.21.2 Zhaoqing Dazheng Aluminum Industry Major Business
 - 9.21.3 Zhaoqing Dazheng Aluminum Industry Scrap-based Aluminum Alloy Product and Services
 - 9.21.4 Zhaoqing Dazheng Aluminum Industry Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Zhaoqing Dazheng Aluminum Industry Recent Developments/Updates
 - 9.21.6 Zhaoqing Dazheng Aluminum Industry Competitive Strengths & Weaknesses
- 9.22 Chiho Environmental Group
 - 9.22.1 Chiho Environmental Group Details
 - 9.22.2 Chiho Environmental Group Major Business
 - 9.22.3 Chiho Environmental Group Scrap-based Aluminum Alloy Product and Services
 - 9.22.4 Chiho Environmental Group Scrap-based Aluminum Alloy Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.22.5 Chiho Environmental Group Recent Developments/Updates

9.22.6 Chiho Environmental Group Competitive Strengths & Weaknesses

9.23 Shandong Nanshan Aluminium

9.23.1 Shandong Nanshan Aluminium Details

9.23.2 Shandong Nanshan Aluminium Major Business

9.23.3 Shandong Nanshan Aluminium Scrap-based Aluminum Alloy Product and Services

9.23.4 Shandong Nanshan Aluminium Scrap-based Aluminum Alloy Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 Shandong Nanshan Aluminium Recent Developments/Updates

9.23.6 Shandong Nanshan Aluminium Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Scrap-based Aluminum Alloy Industry Chain

10.2 Scrap-based Aluminum Alloy Upstream Analysis

10.2.1 Scrap-based Aluminum Alloy Core Raw Materials

10.2.2 Main Manufacturers of Scrap-based Aluminum Alloy Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Scrap-based Aluminum Alloy Production Mode

10.6 Scrap-based Aluminum Alloy Procurement Model

10.7 Scrap-based Aluminum Alloy Industry Sales Model and Sales Channels

10.7.1 Scrap-based Aluminum Alloy Sales Model

10.7.2 Scrap-based Aluminum Alloy Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Scrap-based Aluminum Alloy Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Scrap-based Aluminum Alloy Production Value by Region (2021-2026) & (USD Million)

Table 3. World Scrap-based Aluminum Alloy Production Value by Region (2027-2032) & (USD Million)

Table 4. World Scrap-based Aluminum Alloy Production Value Market Share by Region (2021-2026)

Table 5. World Scrap-based Aluminum Alloy Production Value Market Share by Region (2027-2032)

Table 6. World Scrap-based Aluminum Alloy Production by Region (2021-2026) & (Kilotons)

Table 7. World Scrap-based Aluminum Alloy Production by Region (2027-2032) & (Kilotons)

Table 8. World Scrap-based Aluminum Alloy Production Market Share by Region (2021-2026)

Table 9. World Scrap-based Aluminum Alloy Production Market Share by Region (2027-2032)

Table 10. World Scrap-based Aluminum Alloy Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Scrap-based Aluminum Alloy Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Scrap-based Aluminum Alloy Major Market Trends

Table 13. World Scrap-based Aluminum Alloy Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Scrap-based Aluminum Alloy Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Scrap-based Aluminum Alloy Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Scrap-based Aluminum Alloy Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Scrap-based Aluminum Alloy Producers in 2025

Table 18. World Scrap-based Aluminum Alloy Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Scrap-based Aluminum Alloy Producers in 2025

Table 20. World Scrap-based Aluminum Alloy Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Scrap-based Aluminum Alloy Company Evaluation Quadrant

Table 22. World Scrap-based Aluminum Alloy Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Scrap-based Aluminum Alloy Production Site of Key Manufacturer

Table 24. Scrap-based Aluminum Alloy Market: Company Product Type Footprint

Table 25. Scrap-based Aluminum Alloy Market: Company Product Application Footprint

Table 26. Scrap-based Aluminum Alloy Competitive Factors

Table 27. Scrap-based Aluminum Alloy New Entrant and Capacity Expansion Plans

Table 28. Scrap-based Aluminum Alloy Mergers & Acquisitions Activity

Table 29. United States VS China Scrap-based Aluminum Alloy Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Scrap-based Aluminum Alloy Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Scrap-based Aluminum Alloy Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Scrap-based Aluminum Alloy Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Scrap-based Aluminum Alloy Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Scrap-based Aluminum Alloy Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Scrap-based Aluminum Alloy Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Scrap-based Aluminum Alloy Production Market Share (2021-2026)

Table 37. China Based Scrap-based Aluminum Alloy Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Scrap-based Aluminum Alloy Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Scrap-based Aluminum Alloy Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Scrap-based Aluminum Alloy Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Scrap-based Aluminum Alloy Production Market

Share (2021-2026)

Table 42. Rest of World Based Scrap-based Aluminum Alloy Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Scrap-based Aluminum Alloy Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Scrap-based Aluminum Alloy Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Scrap-based Aluminum Alloy Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Scrap-based Aluminum Alloy Production Market Share (2021-2026)

Table 47. World Scrap-based Aluminum Alloy Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Scrap-based Aluminum Alloy Production by Type (2021-2026) & (Kilotons)

Table 49. World Scrap-based Aluminum Alloy Production by Type (2027-2032) & (Kilotons)

Table 50. World Scrap-based Aluminum Alloy Production Value by Type (2021-2026) & (USD Million)

Table 51. World Scrap-based Aluminum Alloy Production Value by Type (2027-2032) & (USD Million)

Table 52. World Scrap-based Aluminum Alloy Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Scrap-based Aluminum Alloy Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Scrap-based Aluminum Alloy Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Scrap-based Aluminum Alloy Production by Product Form (2021-2026) & (Kilotons)

Table 56. World Scrap-based Aluminum Alloy Production by Product Form (2027-2032) & (Kilotons)

Table 57. World Scrap-based Aluminum Alloy Production Value by Product Form (2021-2026) & (USD Million)

Table 58. World Scrap-based Aluminum Alloy Production Value by Product Form (2027-2032) & (USD Million)

Table 59. World Scrap-based Aluminum Alloy Average Price by Product Form (2021-2026) & (US\$/Ton)

Table 60. World Scrap-based Aluminum Alloy Average Price by Product Form (2027-2032) & (US\$/Ton)

Table 61. World Scrap-based Aluminum Alloy Production Value by Recycled Content, (USD Million), 2021 & 2025 & 2032

Table 62. World Scrap-based Aluminum Alloy Production by Recycled Content (2021-2026) & (Kilotons)

Table 63. World Scrap-based Aluminum Alloy Production by Recycled Content (2027-2032) & (Kilotons)

Table 64. World Scrap-based Aluminum Alloy Production Value by Recycled Content (2021-2026) & (USD Million)

Table 65. World Scrap-based Aluminum Alloy Production Value by Recycled Content (2027-2032) & (USD Million)

Table 66. World Scrap-based Aluminum Alloy Average Price by Recycled Content (2021-2026) & (US\$/Ton)

Table 67. World Scrap-based Aluminum Alloy Average Price by Recycled Content (2027-2032) & (US\$/Ton)

Table 68. World Scrap-based Aluminum Alloy Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Scrap-based Aluminum Alloy Production by Application (2021-2026) & (Kilotons)

Table 70. World Scrap-based Aluminum Alloy Production by Application (2027-2032) & (Kilotons)

Table 71. World Scrap-based Aluminum Alloy Production Value by Application (2021-2026) & (USD Million)

Table 72. World Scrap-based Aluminum Alloy Production Value by Application (2027-2032) & (USD Million)

Table 73. World Scrap-based Aluminum Alloy Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Scrap-based Aluminum Alloy Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Novelis Basic Information, Manufacturing Base and Competitors

Table 76. Novelis Major Business

Table 77. Novelis Scrap-based Aluminum Alloy Product and Services

Table 78. Novelis Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Novelis Recent Developments/Updates

Table 80. Novelis Competitive Strengths & Weaknesses

Table 81. Norsk Hydro Basic Information, Manufacturing Base and Competitors

Table 82. Norsk Hydro Major Business

Table 83. Norsk Hydro Scrap-based Aluminum Alloy Product and Services

Table 84. Norsk Hydro Scrap-based Aluminum Alloy Production (Kilotons), Price

(US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Norsk Hydro Recent Developments/Updates

Table 86. Norsk Hydro Competitive Strengths & Weaknesses

Table 87. UACJ Basic Information, Manufacturing Base and Competitors

Table 88. UACJ Major Business

Table 89. UACJ Scrap-based Aluminum Alloy Product and Services

Table 90. UACJ Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. UACJ Recent Developments/Updates

Table 92. UACJ Competitive Strengths & Weaknesses

Table 93. Lihong Sitong Light Alloys Basic Information, Manufacturing Base and Competitors

Table 94. Lihong Sitong Light Alloys Major Business

Table 95. Lihong Sitong Light Alloys Scrap-based Aluminum Alloy Product and Services

Table 96. Lihong Sitong Light Alloys Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Lihong Sitong Light Alloys Recent Developments/Updates

Table 98. Lihong Sitong Light Alloys Competitive Strengths & Weaknesses

Table 99. Chongqing Shunbo Aluminum Basic Information, Manufacturing Base and Competitors

Table 100. Chongqing Shunbo Aluminum Major Business

Table 101. Chongqing Shunbo Aluminum Scrap-based Aluminum Alloy Product and Services

Table 102. Chongqing Shunbo Aluminum Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Chongqing Shunbo Aluminum Recent Developments/Updates

Table 104. Chongqing Shunbo Aluminum Competitive Strengths & Weaknesses

Table 105. Constellium Basic Information, Manufacturing Base and Competitors

Table 106. Constellium Major Business

Table 107. Constellium Scrap-based Aluminum Alloy Product and Services

Table 108. Constellium Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Constellium Recent Developments/Updates

Table 110. Constellium Competitive Strengths & Weaknesses

Table 111. Toyota Tsusho Basic Information, Manufacturing Base and Competitors

Table 112. Toyota Tsusho Major Business

Table 113. Toyota Tsusho Scrap-based Aluminum Alloy Product and Services

Table 114. Toyota Tsusho Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Toyota Tsusho Recent Developments/Updates

Table 116. Toyota Tsusho Competitive Strengths & Weaknesses

Table 117. Chongqing Shunbo Aluminum Alloy Basic Information, Manufacturing Base and Competitors

Table 118. Chongqing Shunbo Aluminum Alloy Major Business

Table 119. Chongqing Shunbo Aluminum Alloy Scrap-based Aluminum Alloy Product and Services

Table 120. Chongqing Shunbo Aluminum Alloy Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Chongqing Shunbo Aluminum Alloy Recent Developments/Updates

Table 122. Chongqing Shunbo Aluminum Alloy Competitive Strengths & Weaknesses

Table 123. CSMET Basic Information, Manufacturing Base and Competitors

Table 124. CSMET Major Business

Table 125. CSMET Scrap-based Aluminum Alloy Product and Services

Table 126. CSMET Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. CSMET Recent Developments/Updates

Table 128. CSMET Competitive Strengths & Weaknesses

Table 129. Henan Mingtai Aluminum Industrial Basic Information, Manufacturing Base and Competitors

Table 130. Henan Mingtai Aluminum Industrial Major Business

Table 131. Henan Mingtai Aluminum Industrial Scrap-based Aluminum Alloy Product and Services

Table 132. Henan Mingtai Aluminum Industrial Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Henan Mingtai Aluminum Industrial Recent Developments/Updates

Table 134. Henan Mingtai Aluminum Industrial Competitive Strengths & Weaknesses

Table 135. Kaiser Aluminum Basic Information, Manufacturing Base and Competitors

Table 136. Kaiser Aluminum Major Business

Table 137. Kaiser Aluminum Scrap-based Aluminum Alloy Product and Services

Table 138. Kaiser Aluminum Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Kaiser Aluminum Recent Developments/Updates

Table 140. Kaiser Aluminum Competitive Strengths & Weaknesses

Table 141. Sigma Group Basic Information, Manufacturing Base and Competitors

Table 142. Sigma Group Major Business

Table 143. Sigma Group Scrap-based Aluminum Alloy Product and Services

Table 144. Sigma Group Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Sigma Group Recent Developments/Updates

Table 146. Sigma Group Competitive Strengths & Weaknesses

Table 147. INNOVATION NEW MATERIAL TECHNOLOGY Basic Information, Manufacturing Base and Competitors

Table 148. INNOVATION NEW MATERIAL TECHNOLOGY Major Business

Table 149. INNOVATION NEW MATERIAL TECHNOLOGY Scrap-based Aluminum Alloy Product and Services

Table 150. INNOVATION NEW MATERIAL TECHNOLOGY Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. INNOVATION NEW MATERIAL TECHNOLOGY Recent Developments/Updates

Table 152. INNOVATION NEW MATERIAL TECHNOLOGY Competitive Strengths & Weaknesses

Table 153. Guangxi Pinglu Group Basic Information, Manufacturing Base and Competitors

Table 154. Guangxi Pinglu Group Major Business

Table 155. Guangxi Pinglu Group Scrap-based Aluminum Alloy Product and Services

Table 156. Guangxi Pinglu Group Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Guangxi Pinglu Group Recent Developments/Updates

Table 158. Guangxi Pinglu Group Competitive Strengths & Weaknesses

Table 159. Raffmetal Basic Information, Manufacturing Base and Competitors

Table 160. Raffmetal Major Business

Table 161. Raffmetal Scrap-based Aluminum Alloy Product and Services

Table 162. Raffmetal Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 163. Raffmetal Recent Developments/Updates

Table 164. Raffmetal Competitive Strengths & Weaknesses

Table 165. Matalco Basic Information, Manufacturing Base and Competitors

Table 166. Matalco Major Business

Table 167. Matalco Scrap-based Aluminum Alloy Product and Services

Table 168. Matalco Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Matalco Recent Developments/Updates

Table 170. Matalco Competitive Strengths & Weaknesses

Table 171. Zhejiang Wantai Aluminum Basic Information, Manufacturing Base and Competitors

Table 172. Zhejiang Wantai Aluminum Major Business

Table 173. Zhejiang Wantai Aluminum Scrap-based Aluminum Alloy Product and Services

Table 174. Zhejiang Wantai Aluminum Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Zhejiang Wantai Aluminum Recent Developments/Updates

Table 176. Zhejiang Wantai Aluminum Competitive Strengths & Weaknesses

Table 177. Yiqiu Metal Resource Regeneration Basic Information, Manufacturing Base and Competitors

Table 178. Yiqiu Metal Resource Regeneration Major Business

Table 179. Yiqiu Metal Resource Regeneration Scrap-based Aluminum Alloy Product and Services

Table 180. Yiqiu Metal Resource Regeneration Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Yiqiu Metal Resource Regeneration Recent Developments/Updates

Table 182. Yiqiu Metal Resource Regeneration Competitive Strengths & Weaknesses

Table 183. Speira Basic Information, Manufacturing Base and Competitors

Table 184. Speira Major Business

Table 185. Speira Scrap-based Aluminum Alloy Product and Services

Table 186. Speira Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Speira Recent Developments/Updates

Table 188. Speira Competitive Strengths & Weaknesses

Table 189. Shanghai Yongmaotai Automotive Technology Basic Information,

Manufacturing Base and Competitors

Table 190. Shanghai Yongmaotai Automotive Technology Major Business

Table 191. Shanghai Yongmaotai Automotive Technology Scrap-based Aluminum Alloy Product and Services

Table 192. Shanghai Yongmaotai Automotive Technology Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Shanghai Yongmaotai Automotive Technology Recent Developments/Updates

Table 194. Shanghai Yongmaotai Automotive Technology Competitive Strengths & Weaknesses

Table 195. Zhaoqing Dazheng Aluminum Industry Basic Information, Manufacturing Base and Competitors

Table 196. Zhaoqing Dazheng Aluminum Industry Major Business

Table 197. Zhaoqing Dazheng Aluminum Industry Scrap-based Aluminum Alloy Product and Services

Table 198. Zhaoqing Dazheng Aluminum Industry Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Zhaoqing Dazheng Aluminum Industry Recent Developments/Updates

Table 200. Zhaoqing Dazheng Aluminum Industry Competitive Strengths & Weaknesses

Table 201. Chiho Environmental Group Basic Information, Manufacturing Base and Competitors

Table 202. Chiho Environmental Group Major Business

Table 203. Chiho Environmental Group Scrap-based Aluminum Alloy Product and Services

Table 204. Chiho Environmental Group Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Chiho Environmental Group Recent Developments/Updates

Table 206. Chiho Environmental Group Competitive Strengths & Weaknesses

Table 207. Shandong Nanshan Aluminium Basic Information, Manufacturing Base and Competitors

Table 208. Shandong Nanshan Aluminium Major Business

Table 209. Shandong Nanshan Aluminium Scrap-based Aluminum Alloy Product and Services

Table 210. Shandong Nanshan Aluminium Scrap-based Aluminum Alloy Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 211. Shandong Nanshan Aluminium Recent Developments/Updates

Table 212. Shandong Nanshan Aluminium Competitive Strengths & Weaknesses

Table 213. Global Key Players of Scrap-based Aluminum Alloy Upstream (Raw Materials)

Table 214. Global Scrap-based Aluminum Alloy Typical Customers

Table 215. Scrap-based Aluminum Alloy Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Scrap-based Aluminum Alloy Picture

Figure 2. World Scrap-based Aluminum Alloy Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Scrap-based Aluminum Alloy Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Scrap-based Aluminum Alloy Production (2021-2032) & (Kilotons)

Figure 5. World Scrap-based Aluminum Alloy Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Scrap-based Aluminum Alloy Production Value Market Share by Region (2021-2032)

Figure 7. World Scrap-based Aluminum Alloy Production Market Share by Region (2021-2032)

Figure 8. North America Scrap-based Aluminum Alloy Production (2021-2032) & (Kilotons)

Figure 9. Europe Scrap-based Aluminum Alloy Production (2021-2032) & (Kilotons)

Figure 10. China Scrap-based Aluminum Alloy Production (2021-2032) & (Kilotons)

Figure 11. Japan Scrap-based Aluminum Alloy Production (2021-2032) & (Kilotons)

Figure 12. India Scrap-based Aluminum Alloy Production (2021-2032) & (Kilotons)

Figure 13. Southeast Asia Scrap-based Aluminum Alloy Production (2021-2032) & (Kilotons)

Figure 14. Scrap-based Aluminum Alloy Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Scrap-based Aluminum Alloy Consumption (2021-2032) & (Kilotons)

Figure 17. World Scrap-based Aluminum Alloy Consumption Market Share by Region (2021-2032)

Figure 18. United States Scrap-based Aluminum Alloy Consumption (2021-2032) & (Kilotons)

Figure 19. China Scrap-based Aluminum Alloy Consumption (2021-2032) & (Kilotons)

Figure 20. Europe Scrap-based Aluminum Alloy Consumption (2021-2032) & (Kilotons)

Figure 21. Japan Scrap-based Aluminum Alloy Consumption (2021-2032) & (Kilotons)

Figure 22. South Korea Scrap-based Aluminum Alloy Consumption (2021-2032) & (Kilotons)

Figure 23. ASEAN Scrap-based Aluminum Alloy Consumption (2021-2032) & (Kilotons)

Figure 24. India Scrap-based Aluminum Alloy Consumption (2021-2032) & (Kilotons)

Figure 25. Producer Shipments of Scrap-based Aluminum Alloy by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Scrap-based Aluminum Alloy Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Scrap-based Aluminum Alloy Markets in 2025

Figure 28. United States VS China: Scrap-based Aluminum Alloy Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Scrap-based Aluminum Alloy Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Scrap-based Aluminum Alloy Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Scrap-based Aluminum Alloy Production Market Share 2025

Figure 32. China Based Manufacturers Scrap-based Aluminum Alloy Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Scrap-based Aluminum Alloy Production Market Share 2025

Figure 34. World Scrap-based Aluminum Alloy Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Scrap-based Aluminum Alloy Production Value Market Share by Type in 2025

Figure 36. Casting

Figure 37. Rolling

Figure 38. Extrusion

Figure 39. Forging

Figure 40. Others

Figure 41. World Scrap-based Aluminum Alloy Production Market Share by Type (2021-2032)

Figure 42. World Scrap-based Aluminum Alloy Production Value Market Share by Type (2021-2032)

Figure 43. World Scrap-based Aluminum Alloy Average Price by Type (2021-2032) & (US\$/Ton)

Figure 44. World Scrap-based Aluminum Alloy Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 45. World Scrap-based Aluminum Alloy Production Value Market Share by Product Form in 2025

Figure 46. Aluminum Alloy Ingot

Figure 47. Aluminum Alloy Rod

Figure 48. Aluminum Alloy Billet

Figure 49. Others

Figure 50. World Scrap-based Aluminum Alloy Production Market Share by Product Form (2021-2032)

Figure 51. World Scrap-based Aluminum Alloy Production Value Market Share by Product Form (2021-2032)

Figure 52. World Scrap-based Aluminum Alloy Average Price by Product Form (2021-2032) & (US\$/Ton)

Figure 53. World Scrap-based Aluminum Alloy Production Value by Recycled Content, (USD Million), 2021 & 2025 & 2032

Figure 54. World Scrap-based Aluminum Alloy Production Value Market Share by Recycled Content in 2025

Figure 55. Low Recycled Content

Figure 56. Medium Recycled Content

Figure 57. High Recycled Content

Figure 58. World Scrap-based Aluminum Alloy Production Market Share by Recycled Content (2021-2032)

Figure 59. World Scrap-based Aluminum Alloy Production Value Market Share by Recycled Content (2021-2032)

Figure 60. World Scrap-based Aluminum Alloy Average Price by Recycled Content (2021-2032) & (US\$/Ton)

Figure 61. World Scrap-based Aluminum Alloy Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Scrap-based Aluminum Alloy Production Value Market Share by Application in 2025

Figure 63. Automotive

Figure 64. Construction Materials

Figure 65. Equipment

Figure 66. Hardware

Figure 67. Home Appliances

Figure 68. Consumer Goods

Figure 69. Others

Figure 70. World Scrap-based Aluminum Alloy Production Market Share by Application (2021-2032)

Figure 71. World Scrap-based Aluminum Alloy Production Value Market Share by Application (2021-2032)

Figure 72. World Scrap-based Aluminum Alloy Average Price by Application (2021-2032) & (US\$/Ton)

Figure 73. Scrap-based Aluminum Alloy Industry Chain

Figure 74. Scrap-based Aluminum Alloy Procurement Model

Figure 75. Scrap-based Aluminum Alloy Sales Model

Figure 76. Scrap-based Aluminum Alloy Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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