

# Global Eutectic Al-Si Alloy Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Eutectic Al-Si Alloy market size is expected to reach \$ 766 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

Eutectic Al-Si alloy is an alloy with aluminum and silicon as the main components. At a specific silicon content (about 11%-13%), the alloy will precipitate  $\alpha$  (Al) and  $\beta$  (Si) phases simultaneously during solidification to form a eutectic. This alloy has been widely used in aviation, transportation, construction, automobiles and other fields due to its good casting properties, moderate strength and hardness, wear resistance and corrosion resistance. Features: Eutectic structure: Eutectic Al-Si alloy forms a eutectic composed of  $\alpha$  (Al) and  $\beta$  (Si) phases during solidification. This structure makes the alloy show a unique balance in mechanical properties, with both the lightness and toughness of aluminum and the hardness and wear resistance of silicon. Good casting properties: Eutectic Al-Si alloy has good fluidity and can fill complex mold cavities to form precisely shaped castings. Its low tendency to hot cracking helps reduce casting defects and improve casting quality. Moderate strength and hardness: Compared with pure aluminum, the strength and hardness of eutectic Al-Si alloy are significantly improved, but still maintain good toughness. This moderate mechanical property enables the alloy to maintain stable performance when subjected to a certain load. Good wear resistance and corrosion resistance: The addition of silicon particles improves the wear resistance of the alloy, making it perform well in some parts that need to withstand friction and wear. At the same time, eutectic Al-Si alloy also has a certain corrosion resistance and can maintain a long service life in some corrosive environments. Machinability: Although the hardness of eutectic Al-Si alloy is relatively high, it can still be machined by cutting, drilling and other machining operations after proper heat treatment. In addition, the alloy can also be processed and formed by welding, die casting and other processes. Thermal stability: Eutectoid Al-Si alloy can

maintain good dimensional stability when the temperature changes, thanks to its low thermal expansion coefficient. Price advantage: Compared with other high-performance alloys, the price of eutectic Al-Si alloy is relatively moderate, making it more cost-effective in industrial applications. Environmental protection: As a metal material, eutectic Al-Si alloy has good recyclability and reusability. In the process of waste treatment, resources can be recycled and remelted to reduce environmental pollution.

Global key players of Eutectic Al-Si Alloy include RUSAL, Resonac, Norsk Hydr. Among them, RUSAL has a global share of about 40%. North America is the largest market, and has a share about 42%, followed by Europe and Asia-Pacific with share 34% and 21%, separately. In terms of product type, Silicon content?12% is the largest segment, accounting for a share of 71%. In terms of application, Automotive is the largest field with a share about 50 percent.

This report studies the global Eutectic Al-Si Alloy production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Eutectic Al-Si 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 Eutectic Al-Si Alloy that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Eutectic Al-Si Alloy total production and demand, 2021-2032, (Tons)

Global Eutectic Al-Si Alloy total production value, 2021-2032, (USD Million)

Global Eutectic Al-Si Alloy production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Eutectic Al-Si Alloy consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Eutectic Al-Si Alloy domestic production, consumption, key domestic manufacturers and share

Global Eutectic Al-Si Alloy production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Eutectic Al-Si Alloy production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Eutectic Al-Si Alloy production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Eutectic Al-Si 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 RUSAL, Resonac, Norsk Hydro, 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 Eutectic Al-Si Alloy market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Eutectic Al-Si Alloy Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Eutectic Al-Si Alloy Market, Segmentation by Type:

Silicon content?12%

Silicon content ?12%

Global Eutectic Al-Si Alloy Market, Segmentation by Application:

Aerospace

Automotive

Others

Companies Profiled:

RUSAL

Resonac

Norsk Hydro

**Key Questions Answered:**

1. How big is the global Eutectic Al-Si Alloy market?
2. What is the demand of the global Eutectic Al-Si Alloy market?
3. What is the year over year growth of the global Eutectic Al-Si Alloy market?
4. What is the production and production value of the global Eutectic Al-Si Alloy market?
5. Who are the key producers in the global Eutectic Al-Si Alloy market?
6. What are the growth factors driving the market demand?

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