

# Global Eutectic Al-Si Alloy Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Eutectic Al-Si Alloy market size was valued at US\$ 529 million in 2024 and is forecast to a readjusted size of USD 733 million by 2031 with a CAGR of 4.8% during review period.

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 is a detailed and comprehensive analysis for global Eutectic Al-Si 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 Eutectic Al-Si Alloy market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Eutectic Al-Si Alloy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Eutectic Al-Si Alloy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Eutectic Al-Si Alloy market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

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 Eutectic Al-Si 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 Eutectic Al-Si 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 RUSAL, Resonac, Norsk Hydro, etc.

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

## Market Segmentation

Eutectic Al-Si Alloy market is split by Type and by Application. For the period 2020-2031, 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

Silicon content?12%

Silicon content ?12%

### Market segment by Application

Aerospace

Automotive

Others

Major players covered

RUSAL

Resonac

Norsk Hydro

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 Eutectic Al-Si Alloy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Eutectic Al-Si Alloy, with price, sales quantity, revenue, and global market share of Eutectic Al-Si Alloy from 2020 to 2025.

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

Chapter 4, the Eutectic Al-Si Alloy breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Eutectic Al-Si Alloy market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Eutectic Al-Si Alloy.

Chapter 14 and 15, to describe Eutectic Al-Si Alloy sales channel, distributors, customers, research findings and conclusion.

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