

# Global Aluminum Antimonide Market Research Report 2025(Status and Outlook)

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## Abstracts

### Report Overview

Aluminum Antimonide (AlSb) is a binary semiconductor compound formed from aluminum and antimony, belonging to the III-V group of materials. It exhibits a zincblende crystal structure and possesses unique electronic properties, including a direct bandgap of approximately 1.6 eV, making it suitable for optoelectronic and high-frequency device applications. AlSb is particularly valued in specialized semiconductor devices, such as infrared detectors, high-electron-mobility transistors (HEMTs), and tandem solar cells, due to its ability to form heterostructures with other III-V compounds like gallium antimonide (GaSb). However, its commercial adoption is limited by challenges in material synthesis, including sensitivity to moisture and difficulty in achieving high-purity crystalline growth, which increases production costs. The market for AlSb remains niche, primarily driven by research institutions and advanced semiconductor manufacturers focused on cutting-edge optoelectronic and photovoltaic technologies. Demand is expected to grow gradually, supported by advancements in compound semiconductor fabrication and increasing interest in high-efficiency solar cells and next-generation electronic devices.

This report provides a deep insight into the global Aluminum Antimonide market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the

Global Aluminum Antimonide Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Aluminum Antimonide market in any manner.

### Global Aluminum Antimonide Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

#### **Key Company**

American Elements  
Materion  
Alfa Aesar  
Xi'an Function Material Group  
ALB Materials Inc  
Nanorh

#### **Market Segmentation (by Type)**

2N  
3N  
4N  
5N  
Others

#### **Market Segmentation (by Application)**

Electronics  
Scientific Research

#### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

**Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the Aluminum Antimonide Market  
Overview of the regional outlook of the Aluminum Antimonide Market:

**Customization of the Report**

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**Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Aluminum Antimonide Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the

industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Aluminum Antimonide, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well

as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

#### 1.1 Market Definition and Statistical Scope of Aluminum Antimonide

#### 1.2 Key Market Segments

##### 1.2.1 Aluminum Antimonide Segment by Type

##### 1.2.2 Aluminum Antimonide Segment by Application

#### 1.3 Methodology & Sources of Information

##### 1.3.1 Research Methodology

##### 1.3.2 Research Process

##### 1.3.3 Market Breakdown and Data Triangulation

##### 1.3.4 Base Year

##### 1.3.5 Report Assumptions & Caveats

### **2 ALUMINUM ANTIMONIDE MARKET OVERVIEW**

#### 2.1 Global Market Overview

##### 2.1.1 Global Aluminum Antimonide Market Size (M USD) Estimates and Forecasts (2020-2033)

##### 2.1.2 Global Aluminum Antimonide Sales Estimates and Forecasts (2020-2033)

#### 2.2 Market Segment Executive Summary

#### 2.3 Global Market Size by Region

### **3 ALUMINUM ANTIMONIDE MARKET COMPETITIVE LANDSCAPE**

#### 3.1 Company Assessment Quadrant

#### 3.2 Global Aluminum Antimonide Product Life Cycle

#### 3.3 Global Aluminum Antimonide Sales by Manufacturers (2020-2025)

#### 3.4 Global Aluminum Antimonide Revenue Market Share by Manufacturers (2020-2025)

#### 3.5 Aluminum Antimonide Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

#### 3.6 Global Aluminum Antimonide Average Price by Manufacturers (2020-2025)

#### 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

#### 3.8 Aluminum Antimonide Market Competitive Situation and Trends

##### 3.8.1 Aluminum Antimonide Market Concentration Rate

##### 3.8.2 Global 5 and 10 Largest Aluminum Antimonide Players Market Share by Revenue

##### 3.8.3 Mergers & Acquisitions, Expansion

## **4 ALUMINUM ANTIMONIDE INDUSTRY CHAIN ANALYSIS**

- 4.1 Aluminum Antimonide Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF ALUMINUM ANTIMONIDE MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global Aluminum Antimonide Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to Aluminum Antimonide Market
- 5.7 ESG Ratings of Leading Companies

## **6 ALUMINUM ANTIMONIDE MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Aluminum Antimonide Sales Market Share by Type (2020-2025)
- 6.3 Global Aluminum Antimonide Market Size Market Share by Type (2020-2025)
- 6.4 Global Aluminum Antimonide Price by Type (2020-2025)

## **7 ALUMINUM ANTIMONIDE MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Aluminum Antimonide Market Sales by Application (2020-2025)



7.3 Global Aluminum Antimonide Market Size (M USD) by Application (2020-2025)

7.4 Global Aluminum Antimonide Sales Growth Rate by Application (2020-2025)

## **8 ALUMINUM ANTIMONIDE MARKET SALES BY REGION**

8.1 Global Aluminum Antimonide Sales by Region

8.1.1 Global Aluminum Antimonide Sales by Region

8.1.2 Global Aluminum Antimonide Sales Market Share by Region

8.2 Global Aluminum Antimonide Market Size by Region

8.2.1 Global Aluminum Antimonide Market Size by Region

8.2.2 Global Aluminum Antimonide Market Size Market Share by Region

8.3 North America

8.3.1 North America Aluminum Antimonide Sales by Country

8.3.2 North America Aluminum Antimonide Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Aluminum Antimonide Sales by Country

8.4.2 Europe Aluminum Antimonide Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Aluminum Antimonide Sales by Region

8.5.2 Asia Pacific Aluminum Antimonide Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Aluminum Antimonide Sales by Country

8.6.2 South America Aluminum Antimonide Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview



## 8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Aluminum Antimonide Sales by Region
- 8.7.2 Middle East and Africa Aluminum Antimonide Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

## 9 ALUMINUM ANTIMONIDE MARKET PRODUCTION BY REGION

- 9.1 Global Production of Aluminum Antimonide by Region(2020-2025)
- 9.2 Global Aluminum Antimonide Revenue Market Share by Region (2020-2025)
- 9.3 Global Aluminum Antimonide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Aluminum Antimonide Production
  - 9.4.1 North America Aluminum Antimonide Production Growth Rate (2020-2025)
  - 9.4.2 North America Aluminum Antimonide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Aluminum Antimonide Production
  - 9.5.1 Europe Aluminum Antimonide Production Growth Rate (2020-2025)
  - 9.5.2 Europe Aluminum Antimonide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Aluminum Antimonide Production (2020-2025)
  - 9.6.1 Japan Aluminum Antimonide Production Growth Rate (2020-2025)
  - 9.6.2 Japan Aluminum Antimonide Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Aluminum Antimonide Production (2020-2025)
  - 9.7.1 China Aluminum Antimonide Production Growth Rate (2020-2025)
  - 9.7.2 China Aluminum Antimonide Production, Revenue, Price and Gross Margin (2020-2025)

## 10 KEY COMPANIES PROFILE

- 10.1 American Elements
  - 10.1.1 American Elements Basic Information
  - 10.1.2 American Elements Aluminum Antimonide Product Overview
  - 10.1.3 American Elements Aluminum Antimonide Product Market Performance
  - 10.1.4 American Elements Business Overview

10.1.5 American Elements SWOT Analysis

10.1.6 American Elements Recent Developments

## 10.2 Materion

10.2.1 Materion Basic Information

10.2.2 Materion Aluminum Antimonide Product Overview

10.2.3 Materion Aluminum Antimonide Product Market Performance

10.2.4 Materion Business Overview

10.2.5 Materion SWOT Analysis

10.2.6 Materion Recent Developments

## 10.3 Alfa Aesar

10.3.1 Alfa Aesar Basic Information

10.3.2 Alfa Aesar Aluminum Antimonide Product Overview

10.3.3 Alfa Aesar Aluminum Antimonide Product Market Performance

10.3.4 Alfa Aesar Business Overview

10.3.5 Alfa Aesar SWOT Analysis

10.3.6 Alfa Aesar Recent Developments

## 10.4 Xi'an Function Material Group

10.4.1 Xi'an Function Material Group Basic Information

10.4.2 Xi'an Function Material Group Aluminum Antimonide Product Overview

10.4.3 Xi'an Function Material Group Aluminum Antimonide Product Market

Performance

10.4.4 Xi'an Function Material Group Business Overview

10.4.5 Xi'an Function Material Group Recent Developments

## 10.5 ALB Materials Inc

10.5.1 ALB Materials Inc Basic Information

10.5.2 ALB Materials Inc Aluminum Antimonide Product Overview

10.5.3 ALB Materials Inc Aluminum Antimonide Product Market Performance

10.5.4 ALB Materials Inc Business Overview

10.5.5 ALB Materials Inc Recent Developments

## 10.6 Nanorh

10.6.1 Nanorh Basic Information

10.6.2 Nanorh Aluminum Antimonide Product Overview

10.6.3 Nanorh Aluminum Antimonide Product Market Performance

10.6.4 Nanorh Business Overview

10.6.5 Nanorh Recent Developments

# 11 ALUMINUM ANTIMONIDE MARKET FORECAST BY REGION

## 11.1 Global Aluminum Antimonide Market Size Forecast

## 11.2 Global Aluminum Antimonide Market Forecast by Region

### 11.2.1 North America Market Size Forecast by Country

### 11.2.2 Europe Aluminum Antimonide Market Size Forecast by Country

### 11.2.3 Asia Pacific Aluminum Antimonide Market Size Forecast by Region

### 11.2.4 South America Aluminum Antimonide Market Size Forecast by Country

### 11.2.5 Middle East and Africa Forecasted Sales of Aluminum Antimonide by Country

## 12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

### 12.1 Global Aluminum Antimonide Market Forecast by Type (2026-2033)

#### 12.1.1 Global Forecasted Sales of Aluminum Antimonide by Type (2026-2033)

#### 12.1.2 Global Aluminum Antimonide Market Size Forecast by Type (2026-2033)

#### 12.1.3 Global Forecasted Price of Aluminum Antimonide by Type (2026-2033)

### 12.2 Global Aluminum Antimonide Market Forecast by Application (2026-2033)

#### 12.2.1 Global Aluminum Antimonide Sales (K Units) Forecast by Application

#### 12.2.2 Global Aluminum Antimonide Market Size (M USD) Forecast by Application (2026-2033)

## 13 CONCLUSION AND KEY FINDINGS

## List Of Tables

### LIST OF TABLES

|                                                                                                               |
|---------------------------------------------------------------------------------------------------------------|
| Table 1. Introduction of the Type                                                                             |
| Table 2. Introduction of the Application                                                                      |
| Table 3. Market Size (M USD) Segment Executive Summary                                                        |
| Table 4. Aluminum Antimonide Market Size Comparison by Region (M USD)                                         |
| Table 5. Global Aluminum Antimonide Sales (K Units) by Manufacturers (2020-2025)                              |
| Table 6. Global Aluminum Antimonide Sales Market Share by Manufacturers (2020-2025)                           |
| Table 7. Global Aluminum Antimonide Revenue (M USD) by Manufacturers (2020-2025)                              |
| Table 8. Global Aluminum Antimonide Revenue Share by Manufacturers (2020-2025)                                |
| Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Aluminum Antimonide as of 2024) |
| Table 10. Global Market Aluminum Antimonide Average Price (USD/Unit) of Key Manufacturers (2020-2025)         |
| Table 11. Manufacturers? Manufacturing Sites, Areas Served                                                    |
| Table 12. Manufacturers? Product Type                                                                         |
| Table 13. Global Aluminum Antimonide Manufacturers Market Concentration Ratio (CR5 and HHI)                   |
| Table 14. Mergers & Acquisitions, Expansion Plans                                                             |
| Table 15. Market Overview of Key Raw Materials                                                                |
| Table 16. Midstream Market Analysis                                                                           |
| Table 17. Downstream Customer Analysis                                                                        |
| Table 18. Key Development Trends                                                                              |
| Table 19. Driving Factors                                                                                     |
| Table 20. Aluminum Antimonide Market Challenges                                                               |
| Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026                                          |
| Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027                                            |
| Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026                                            |
| Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries                  |
| Table 25. Global Aluminum Antimonide Sales by Type (K Units)                                                  |
| Table 26. Global Aluminum Antimonide Market Size by Type (M USD)                                              |
| Table 27. Global Aluminum Antimonide Sales (K Units) by Type (2020-2025)                                      |
| Table 28. Global Aluminum Antimonide Sales Market Share by Type (2020-2025)                                   |
| Table 29. Global Aluminum Antimonide Market Size (M USD) by Type (2020-2025)                                  |
| Table 30. Global Aluminum Antimonide Market Size Share by Type (2020-2025)                                    |

|                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| Table 31. Global Aluminum Antimonide Price (USD/Unit) by Type (2020-2025)                                                               |
| Table 32. Global Aluminum Antimonide Sales (K Units) by Application                                                                     |
| Table 33. Global Aluminum Antimonide Market Size by Application                                                                         |
| Table 34. Global Aluminum Antimonide Sales by Application (2020-2025) & (K Units)                                                       |
| Table 35. Global Aluminum Antimonide Sales Market Share by Application (2020-2025)                                                      |
| Table 36. Global Aluminum Antimonide Market Size by Application (2020-2025) & (M USD)                                                   |
| Table 37. Global Aluminum Antimonide Market Share by Application (2020-2025)                                                            |
| Table 38. Global Aluminum Antimonide Sales Growth Rate by Application (2020-2025)                                                       |
| Table 39. Global Aluminum Antimonide Sales by Region (2020-2025) & (K Units)                                                            |
| Table 40. Global Aluminum Antimonide Sales Market Share by Region (2020-2025)                                                           |
| Table 41. Global Aluminum Antimonide Market Size by Region (2020-2025) & (M USD)                                                        |
| Table 42. Global Aluminum Antimonide Market Size Market Share by Region (2020-2025)                                                     |
| Table 43. North America Aluminum Antimonide Sales by Country (2020-2025) & (K Units)                                                    |
| Table 44. North America Aluminum Antimonide Market Size by Country (2020-2025) & (M USD)                                                |
| Table 45. Europe Aluminum Antimonide Sales by Country (2020-2025) & (K Units)                                                           |
| Table 46. Europe Aluminum Antimonide Market Size by Country (2020-2025) & (M USD)                                                       |
| Table 47. Asia Pacific Aluminum Antimonide Sales by Region (2020-2025) & (K Units)                                                      |
| Table 48. Asia Pacific Aluminum Antimonide Market Size by Region (2020-2025) & (M USD)                                                  |
| Table 49. South America Aluminum Antimonide Sales by Country (2020-2025) & (K Units)                                                    |
| Table 50. South America Aluminum Antimonide Market Size by Country (2020-2025) & (M USD)                                                |
| Table 51. Middle East and Africa Aluminum Antimonide Sales by Region (2020-2025) & (K Units)                                            |
| Table 52. Middle East and Africa Aluminum Antimonide Market Size by Region (2020-2025) & (M USD)                                        |
| Table 53. Global Aluminum Antimonide Production (K Units) by Region(2020-2025)                                                          |
| Table 54. Global Aluminum Antimonide Revenue (US\$ Million) by Region (2020-2025)                                                       |
| Table 55. Global Aluminum Antimonide Revenue Market Share by Region (2020-2025)                                                         |
| Table 56. Global Aluminum Antimonide Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)        |
| Table 57. North America Aluminum Antimonide Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025) |

Table 58. Europe Aluminum Antimonide Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Japan Aluminum Antimonide Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. China Aluminum Antimonide Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. American Elements Basic Information

Table 62. American Elements Aluminum Antimonide Product Overview

Table 63. American Elements Aluminum Antimonide Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 64. American Elements Business Overview

Table 65. American Elements SWOT Analysis

Table 66. American Elements Recent Developments

Table 67. Materion Basic Information

Table 68. Materion Aluminum Antimonide Product Overview

Table 69. Materion Aluminum Antimonide Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 70. Materion Business Overview

Table 71. Materion SWOT Analysis

Table 72. Materion Recent Developments

Table 73. Alfa Aesar Basic Information

Table 74. Alfa Aesar Aluminum Antimonide Product Overview

Table 75. Alfa Aesar Aluminum Antimonide Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 76. Alfa Aesar Business Overview

Table 77. Alfa Aesar SWOT Analysis

Table 78. Alfa Aesar Recent Developments

Table 79. Xi'an Function Material Group Basic Information

Table 80. Xi'an Function Material Group Aluminum Antimonide Product Overview

Table 81. Xi'an Function Material Group Aluminum Antimonide Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 82. Xi'an Function Material Group Business Overview

Table 83. Xi'an Function Material Group Recent Developments

Table 84. ALB Materials Inc Basic Information

Table 85. ALB Materials Inc Aluminum Antimonide Product Overview

Table 86. ALB Materials Inc Aluminum Antimonide Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 87. ALB Materials Inc Business Overview

Table 88. ALB Materials Inc Recent Developments



Table 89. Nanorh Basic Information

Table 90. Nanorh Aluminum Antimonide Product Overview

Table 91. Nanorh Aluminum Antimonide Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 92. Nanorh Business Overview

Table 93. Nanorh Recent Developments

Table 94. Global Aluminum Antimonide Sales Forecast by Region (2026-2033) & (K Units)

Table 95. Global Aluminum Antimonide Market Size Forecast by Region (2026-2033) & (M USD)

Table 96. North America Aluminum Antimonide Sales Forecast by Country (2026-2033) & (K Units)

Table 97. North America Aluminum Antimonide Market Size Forecast by Country (2026-2033) & (M USD)

Table 98. Europe Aluminum Antimonide Sales Forecast by Country (2026-2033) & (K Units)

Table 99. Europe Aluminum Antimonide Market Size Forecast by Country (2026-2033) & (M USD)

Table 100. Asia Pacific Aluminum Antimonide Sales Forecast by Region (2026-2033) & (K Units)

Table 101. Asia Pacific Aluminum Antimonide Market Size Forecast by Region (2026-2033) & (M USD)

Table 102. South America Aluminum Antimonide Sales Forecast by Country (2026-2033) & (K Units)

Table 103. South America Aluminum Antimonide Market Size Forecast by Country (2026-2033) & (M USD)

Table 104. Middle East and Africa Aluminum Antimonide Sales Forecast by Country (2026-2033) & (Units)

Table 105. Middle East and Africa Aluminum Antimonide Market Size Forecast by Country (2026-2033) & (M USD)

Table 106. Global Aluminum Antimonide Sales Forecast by Type (2026-2033) & (K Units)

Table 107. Global Aluminum Antimonide Market Size Forecast by Type (2026-2033) & (M USD)

Table 108. Global Aluminum Antimonide Price Forecast by Type (2026-2033) & (USD/Unit)

Table 109. Global Aluminum Antimonide Sales (K Units) Forecast by Application (2026-2033)

Table 110. Global Aluminum Antimonide Market Size Forecast by Application



(2026-2033) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Aluminum Antimonide
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Aluminum Antimonide Market Size (M USD), 2024-2033
- Figure 5. Global Aluminum Antimonide Market Size (M USD) (2020-2033)
- Figure 6. Global Aluminum Antimonide Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Aluminum Antimonide Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Aluminum Antimonide Product Life Cycle
- Figure 13. Aluminum Antimonide Sales Share by Manufacturers in 2024
- Figure 14. Global Aluminum Antimonide Revenue Share by Manufacturers in 2024
- Figure 15. Aluminum Antimonide Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Aluminum Antimonide Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Aluminum Antimonide Revenue in 2024
- Figure 18. Industry Chain Map of Aluminum Antimonide
- Figure 19. Global Aluminum Antimonide Market PEST Analysis
- Figure 20. Global Aluminum Antimonide Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Aluminum Antimonide Market Share by Type
- Figure 27. Sales Market Share of Aluminum Antimonide by Type (2020-2025)
- Figure 28. Sales Market Share of Aluminum Antimonide by Type in 2024
- Figure 29. Market Size Share of Aluminum Antimonide by Type (2020-2025)
- Figure 30. Market Size Share of Aluminum Antimonide by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Aluminum Antimonide Market Share by Application

Figure 33. Global Aluminum Antimonide Sales Market Share by Application (2020-2025)

Figure 34. Global Aluminum Antimonide Sales Market Share by Application in 2024

Figure 35. Global Aluminum Antimonide Market Share by Application (2020-2025)

Figure 36. Global Aluminum Antimonide Market Share by Application in 2024

Figure 37. Global Aluminum Antimonide Sales Growth Rate by Application (2020-2025)

Figure 38. Global Aluminum Antimonide Sales Market Share by Region (2020-2025)

Figure 39. Global Aluminum Antimonide Market Size Market Share by Region (2020-2025)

Figure 40. North America Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Aluminum Antimonide Sales Market Share by Country in 2024

Figure 43. North America Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Aluminum Antimonide Market Size Market Share by Country in 2024

Figure 45. U.S. Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Aluminum Antimonide Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Aluminum Antimonide Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Aluminum Antimonide Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Aluminum Antimonide Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Aluminum Antimonide Sales Market Share by Country in 2024

Figure 53. Europe Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Aluminum Antimonide Market Size Market Share by Country in 2024

Figure 55. Germany Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Aluminum Antimonide Market Size and Growth Rate (2020-2025) &

(M USD)

Figure 59. U.K. Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Aluminum Antimonide Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Aluminum Antimonide Sales Market Share by Region in 2024

Figure 67. Asia Pacific Aluminum Antimonide Market Size Market Share by Region in 2024

Figure 68. China Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Aluminum Antimonide Sales and Growth Rate (K Units)

Figure 79. South America Aluminum Antimonide Sales Market Share by Country in 2024

Figure 80. South America Aluminum Antimonide Market Size and Growth Rate (M USD)

Figure 81. South America Aluminum Antimonide Market Size Market Share by Country in 2024

Figure 82. Brazil Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

USD)

Figure 84. Argentina Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Aluminum Antimonide Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Aluminum Antimonide Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Aluminum Antimonide Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Aluminum Antimonide Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Aluminum Antimonide Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Aluminum Antimonide Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Aluminum Antimonide Production Market Share by Region (2020-2025)

Figure 103. North America Aluminum Antimonide Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Aluminum Antimonide Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Aluminum Antimonide Production (K Units) Growth Rate (2020-2025)

Figure 106. China Aluminum Antimonide Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Aluminum Antimonide Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Aluminum Antimonide Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Aluminum Antimonide Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Aluminum Antimonide Market Share Forecast by Type (2026-2033)

Figure 111. Global Aluminum Antimonide Sales Forecast by Application (2026-2033)

Figure 112. Global Aluminum Antimonide Market Share Forecast by Application (2026-2033)

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