

Global Alumina Aerogel Market Growth 2026-2032

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Abstracts

The global Alumina Aerogel market size is predicted to grow from US\$ 232 million in 2025 to US\$ 584 million in 2032; it is expected to grow at a CAGR of 14.2% from 2026 to 2032.

Alumina aerogel is an ultra-lightweight, highly porous nanostructured material composed primarily of aluminum oxide (Al_2O_3), produced by sol-gel polymerization of aluminum alkoxide or aluminum salt precursors followed by supercritical or ambient pressure drying to preserve its 3D mesoporous network (porosity often >85–95%, density as low as 0.02–0.2 g/cm³). It combines extremely low thermal conductivity, high surface area (typically 200–600 m²/g), excellent high-temperature stability (often >1,000 °C), and good chemical resistance, making it suitable for aerospace thermal insulation, catalyst supports, high-temperature filtration, energy storage separators, and defense applications. The supply chain begins upstream with aluminum alkoxides (e.g., aluminum sec-butoxide), aluminum salts (e.g., aluminum nitrate), solvents (ethanol, isopropanol), catalysts (acid/base), and drying equipment (supercritical CO₂ systems), followed by midstream sol-gel synthesis, aging, surface modification, solvent exchange, and controlled drying to form monoliths, granules, blankets, or composite panels; downstream integration includes insulation modules for aerospace and industrial furnaces, catalyst carrier systems in petrochemical processing, thermal barrier components for batteries, and advanced lightweight structural composites, with value concentration typically highest at the drying technology and application-specific composite integration stages. In 2025, global alumina aerogel output was about 2,700 tons versus 3,800 tons of installed capacity, with prices ranging from USD 78,000–150,000 per ton and an average gross margin of roughly 45%.

United States market for Alumina Aerogel is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Alumina Aerogel is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Alumina Aerogel is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Alumina Aerogel players cover Aspen Aerogels (USA), Cabot Corporation (USA), Aerogel Technologies (USA), BASF (Germany), Armacell (Luxembourg), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Alumina Aerogel Industry Forecast" looks at past sales and reviews total world Alumina Aerogel sales in 2025, providing a comprehensive analysis by region and market sector of projected Alumina Aerogel sales for 2026 through 2032. With Alumina Aerogel sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Alumina Aerogel industry.

This Insight Report provides a comprehensive analysis of the global Alumina Aerogel landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Alumina Aerogel portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Alumina Aerogel market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Alumina Aerogel and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Alumina Aerogel.

This report presents a comprehensive overview, market shares, and growth opportunities of Alumina Aerogel market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Amorphous Alumina Aerogel

?-Alumina Aerogel

?-Alumina Aerogel

?-Alumina Aerogel

Segmentation by Thermal Performance:

Standard High Temperature (1,200°C)

Segmentation by Application:

Aerospace & Defense

Petrochemical

Industrial Insulation

Battery Production

Energy & Power

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Aspen Aerogels (USA)

Cabot Corporation (USA)

Aerogel Technologies (USA)

BASF (Germany)

Armacell (Luxembourg)

Enersens (France)

Svenska Aerogel (Sweden)

Blueshift Materials (USA)

Active Aerogels (Portugal)

JIOS Aerogel (South Korea)

Surnano Aerogel (China)

Thermablok Aerogels (UK)

AeroGel Solutions (USA)

Wacker Chemie (Germany)

Mogul Aerogel (Turkey)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Alumina Aerogel market?

What factors are driving Alumina Aerogel market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Alumina Aerogel market opportunities vary by end market size?
How does Alumina Aerogel break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Alumina Aerogel Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Alumina Aerogel by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Alumina Aerogel by Country/Region, 2021, 2025 & 2032

2.2 Alumina Aerogel Segment by Type

- 2.2.1 Amorphous Alumina Aerogel
- 2.2.2 γ -Alumina Aerogel
- 2.2.3 δ -Alumina Aerogel
- 2.2.4 θ -Alumina Aerogel
- 2.2.5 Alumina Aerogel Sales by Type
 - 2.2.5.1 Global Alumina Aerogel Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Alumina Aerogel Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Alumina Aerogel Sale Price by Type (2021-2026)

2.3 Alumina Aerogel Segment by Thermal Performance

- 2.3.1 Standard High Temperature (1,200°C)
- 2.3.4 Alumina Aerogel Sales by Thermal Performance
 - 2.3.4.1 Global Alumina Aerogel Sales Market Share by Thermal Performance (2021-2026)
 - 2.3.4.2 Global Alumina Aerogel Revenue and Market Share by Thermal Performance (2021-2026)
 - 2.3.4.3 Global Alumina Aerogel Sale Price by Thermal Performance (2021-2026)

2.4 Alumina Aerogel Segment by Application

- 2.4.1 Aerospace & Defense
- 2.4.2 Petrochemical
- 2.4.3 Industrial Insulation
- 2.4.4 Battery Production
- 2.4.5 Energy & Power
- 2.4.6 Others
- 2.4.7 Alumina Aerogel Sales by Application
 - 2.4.7.1 Global Alumina Aerogel Sale Market Share by Application (2021-2026)
 - 2.4.7.2 Global Alumina Aerogel Revenue and Market Share by Application (2021-2026)
 - 2.4.7.3 Global Alumina Aerogel Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Alumina Aerogel Breakdown Data by Company
 - 3.1.1 Global Alumina Aerogel Annual Sales by Company (2021-2026)
 - 3.1.2 Global Alumina Aerogel Sales Market Share by Company (2021-2026)
- 3.2 Global Alumina Aerogel Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Alumina Aerogel Revenue by Company (2021-2026)
 - 3.2.2 Global Alumina Aerogel Revenue Market Share by Company (2021-2026)
- 3.3 Global Alumina Aerogel Sale Price by Company
- 3.4 Key Manufacturers Alumina Aerogel Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Alumina Aerogel Product Location Distribution
 - 3.4.2 Players Alumina Aerogel Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ALUMINA AEROGEL BY GEOGRAPHIC REGION

- 4.1 World Historic Alumina Aerogel Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Alumina Aerogel Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Alumina Aerogel Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Alumina Aerogel Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Alumina Aerogel Annual Sales by Country/Region (2021-2026)

- 4.2.2 Global Alumina Aerogel Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Alumina Aerogel Sales Growth
- 4.4 APAC Alumina Aerogel Sales Growth
- 4.5 Europe Alumina Aerogel Sales Growth
- 4.6 Middle East & Africa Alumina Aerogel Sales Growth

5 AMERICAS

- 5.1 Americas Alumina Aerogel Sales by Country
 - 5.1.1 Americas Alumina Aerogel Sales by Country (2021-2026)
 - 5.1.2 Americas Alumina Aerogel Revenue by Country (2021-2026)
- 5.2 Americas Alumina Aerogel Sales by Type (2021-2026)
- 5.3 Americas Alumina Aerogel Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Alumina Aerogel Sales by Region
 - 6.1.1 APAC Alumina Aerogel Sales by Region (2021-2026)
 - 6.1.2 APAC Alumina Aerogel Revenue by Region (2021-2026)
- 6.2 APAC Alumina Aerogel Sales by Type (2021-2026)
- 6.3 APAC Alumina Aerogel Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Alumina Aerogel by Country
 - 7.1.1 Europe Alumina Aerogel Sales by Country (2021-2026)
 - 7.1.2 Europe Alumina Aerogel Revenue by Country (2021-2026)
- 7.2 Europe Alumina Aerogel Sales by Type (2021-2026)

7.3 Europe Alumina Aerogel Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Alumina Aerogel by Country

8.1.1 Middle East & Africa Alumina Aerogel Sales by Country (2021-2026)

8.1.2 Middle East & Africa Alumina Aerogel Revenue by Country (2021-2026)

8.2 Middle East & Africa Alumina Aerogel Sales by Type (2021-2026)

8.3 Middle East & Africa Alumina Aerogel Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Alumina Aerogel

10.3 Manufacturing Process Analysis of Alumina Aerogel

10.4 Industry Chain Structure of Alumina Aerogel

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Alumina Aerogel Distributors

11.3 Alumina Aerogel Customer

12 WORLD FORECAST REVIEW FOR ALUMINA AEROGEL BY GEOGRAPHIC REGION

12.1 Global Alumina Aerogel Market Size Forecast by Region

12.1.1 Global Alumina Aerogel Forecast by Region (2027-2032)

12.1.2 Global Alumina Aerogel Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Alumina Aerogel Forecast by Type (2027-2032)

12.7 Global Alumina Aerogel Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Aspen Aerogels (USA)

13.1.1 Aspen Aerogels (USA) Company Information

13.1.2 Aspen Aerogels (USA) Alumina Aerogel Product Portfolios and Specifications

13.1.3 Aspen Aerogels (USA) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Aspen Aerogels (USA) Main Business Overview

13.1.5 Aspen Aerogels (USA) Latest Developments

13.2 Cabot Corporation (USA)

13.2.1 Cabot Corporation (USA) Company Information

13.2.2 Cabot Corporation (USA) Alumina Aerogel Product Portfolios and Specifications

13.2.3 Cabot Corporation (USA) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Cabot Corporation (USA) Main Business Overview

13.2.5 Cabot Corporation (USA) Latest Developments

13.3 Aerogel Technologies (USA)

13.3.1 Aerogel Technologies (USA) Company Information

13.3.2 Aerogel Technologies (USA) Alumina Aerogel Product Portfolios and Specifications

13.3.3 Aerogel Technologies (USA) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Aerogel Technologies (USA) Main Business Overview

13.3.5 Aerogel Technologies (USA) Latest Developments

13.4 BASF (Germany)

13.4.1 BASF (Germany) Company Information

13.4.2 BASF (Germany) Alumina Aerogel Product Portfolios and Specifications

13.4.3 BASF (Germany) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 BASF (Germany) Main Business Overview

13.4.5 BASF (Germany) Latest Developments

13.5 Armacell (Luxembourg)

13.5.1 Armacell (Luxembourg) Company Information

13.5.2 Armacell (Luxembourg) Alumina Aerogel Product Portfolios and Specifications

13.5.3 Armacell (Luxembourg) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Armacell (Luxembourg) Main Business Overview

13.5.5 Armacell (Luxembourg) Latest Developments

13.6 Enersens (France)

13.6.1 Enersens (France) Company Information

13.6.2 Enersens (France) Alumina Aerogel Product Portfolios and Specifications

13.6.3 Enersens (France) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Enersens (France) Main Business Overview

13.6.5 Enersens (France) Latest Developments

13.7 Svenska Aerogel (Sweden)

13.7.1 Svenska Aerogel (Sweden) Company Information

13.7.2 Svenska Aerogel (Sweden) Alumina Aerogel Product Portfolios and Specifications

13.7.3 Svenska Aerogel (Sweden) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Svenska Aerogel (Sweden) Main Business Overview

13.7.5 Svenska Aerogel (Sweden) Latest Developments

13.8 Blueshift Materials (USA)

13.8.1 Blueshift Materials (USA) Company Information

13.8.2 Blueshift Materials (USA) Alumina Aerogel Product Portfolios and Specifications

13.8.3 Blueshift Materials (USA) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Blueshift Materials (USA) Main Business Overview

13.8.5 Blueshift Materials (USA) Latest Developments

13.9 Active Aerogels (Portugal)

13.9.1 Active Aerogels (Portugal) Company Information

13.9.2 Active Aerogels (Portugal) Alumina Aerogel Product Portfolios and

Specifications

13.9.3 Active Aerogels (Portugal) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Active Aerogels (Portugal) Main Business Overview

13.9.5 Active Aerogels (Portugal) Latest Developments

13.10 JIOS Aerogel (South Korea)

13.10.1 JIOS Aerogel (South Korea) Company Information

13.10.2 JIOS Aerogel (South Korea) Alumina Aerogel Product Portfolios and Specifications

13.10.3 JIOS Aerogel (South Korea) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 JIOS Aerogel (South Korea) Main Business Overview

13.10.5 JIOS Aerogel (South Korea) Latest Developments

13.11 Surnano Aerogel (China)

13.11.1 Surnano Aerogel (China) Company Information

13.11.2 Surnano Aerogel (China) Alumina Aerogel Product Portfolios and Specifications

13.11.3 Surnano Aerogel (China) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Surnano Aerogel (China) Main Business Overview

13.11.5 Surnano Aerogel (China) Latest Developments

13.12 Thermablok Aerogels (UK)

13.12.1 Thermablok Aerogels (UK) Company Information

13.12.2 Thermablok Aerogels (UK) Alumina Aerogel Product Portfolios and Specifications

13.12.3 Thermablok Aerogels (UK) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Thermablok Aerogels (UK) Main Business Overview

13.12.5 Thermablok Aerogels (UK) Latest Developments

13.13 AeroGel Solutions (USA)

13.13.1 AeroGel Solutions (USA) Company Information

13.13.2 AeroGel Solutions (USA) Alumina Aerogel Product Portfolios and Specifications

13.13.3 AeroGel Solutions (USA) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 AeroGel Solutions (USA) Main Business Overview

13.13.5 AeroGel Solutions (USA) Latest Developments

13.14 Wacker Chemie (Germany)

13.14.1 Wacker Chemie (Germany) Company Information

13.14.2 Wacker Chemie (Germany) Alumina Aerogel Product Portfolios and Specifications

13.14.3 Wacker Chemie (Germany) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Wacker Chemie (Germany) Main Business Overview

13.14.5 Wacker Chemie (Germany) Latest Developments

13.15 Mogul Aerogel (Turkey)

13.15.1 Mogul Aerogel (Turkey) Company Information

13.15.2 Mogul Aerogel (Turkey) Alumina Aerogel Product Portfolios and Specifications

13.15.3 Mogul Aerogel (Turkey) Alumina Aerogel Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Mogul Aerogel (Turkey) Main Business Overview

13.15.5 Mogul Aerogel (Turkey) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Alumina Aerogel Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Alumina Aerogel Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Amorphous Alumina Aerogel
- Table 4. Major Players of γ -Alumina Aerogel
- Table 5. Major Players of α -Alumina Aerogel
- Table 6. Major Players of β -Alumina Aerogel
- Table 7. Global Alumina Aerogel Sales by Type (2021-2026) & (Tons)
- Table 8. Global Alumina Aerogel Sales Market Share by Type (2021-2026)
- Table 9. Global Alumina Aerogel Revenue by Type (2021-2026) & (\$ million)
- Table 10. Global Alumina Aerogel Revenue Market Share by Type (2021-2026)
- Table 11. Global Alumina Aerogel Sale Price by Type (2021-2026) & (US\$/Ton)
- Table 12. Major Players of Standard High Temperature (1,200°C)
- Table 15. Global Alumina Aerogel Sales by Thermal Performance (2021-2026) & (Tons)
- Table 16. Global Alumina Aerogel Sales Market Share by Thermal Performance (2021-2026)
- Table 17. Global Alumina Aerogel Revenue by Thermal Performance (2021-2026) & (\$ million)
- Table 18. Global Alumina Aerogel Revenue Market Share by Thermal Performance (2021-2026)
- Table 19. Global Alumina Aerogel Sale Price by Thermal Performance (2021-2026) & (US\$/Ton)
- Table 20. Global Alumina Aerogel Sale by Application (2021-2026) & (Tons)
- Table 21. Global Alumina Aerogel Sale Market Share by Application (2021-2026)
- Table 22. Global Alumina Aerogel Revenue by Application (2021-2026) & (\$ million)
- Table 23. Global Alumina Aerogel Revenue Market Share by Application (2021-2026)
- Table 24. Global Alumina Aerogel Sale Price by Application (2021-2026) & (US\$/Ton)
- Table 25. Global Alumina Aerogel Sales by Company (2021-2026) & (Tons)
- Table 26. Global Alumina Aerogel Sales Market Share by Company (2021-2026)
- Table 27. Global Alumina Aerogel Revenue by Company (2021-2026) & (\$ millions)
- Table 28. Global Alumina Aerogel Revenue Market Share by Company (2021-2026)
- Table 29. Global Alumina Aerogel Sale Price by Company (2021-2026) & (US\$/Ton)
- Table 30. Key Manufacturers Alumina Aerogel Producing Area Distribution and Sales Area

- Table 31. Players Alumina Aerogel Products Offered
- Table 32. Alumina Aerogel Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 33. New Products and Potential Entrants
- Table 34. Market M&A Activity & Strategy
- Table 35. Global Alumina Aerogel Sales by Geographic Region (2021-2026) & (Tons)
- Table 36. Global Alumina Aerogel Sales Market Share Geographic Region (2021-2026)
- Table 37. Global Alumina Aerogel Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 38. Global Alumina Aerogel Revenue Market Share by Geographic Region (2021-2026)
- Table 39. Global Alumina Aerogel Sales by Country/Region (2021-2026) & (Tons)
- Table 40. Global Alumina Aerogel Sales Market Share by Country/Region (2021-2026)
- Table 41. Global Alumina Aerogel Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 42. Global Alumina Aerogel Revenue Market Share by Country/Region (2021-2026)
- Table 43. Americas Alumina Aerogel Sales by Country (2021-2026) & (Tons)
- Table 44. Americas Alumina Aerogel Sales Market Share by Country (2021-2026)
- Table 45. Americas Alumina Aerogel Revenue by Country (2021-2026) & (\$ millions)
- Table 46. Americas Alumina Aerogel Sales by Type (2021-2026) & (Tons)
- Table 47. Americas Alumina Aerogel Sales by Application (2021-2026) & (Tons)
- Table 48. APAC Alumina Aerogel Sales by Region (2021-2026) & (Tons)
- Table 49. APAC Alumina Aerogel Sales Market Share by Region (2021-2026)
- Table 50. APAC Alumina Aerogel Revenue by Region (2021-2026) & (\$ millions)
- Table 51. APAC Alumina Aerogel Sales by Type (2021-2026) & (Tons)
- Table 52. APAC Alumina Aerogel Sales by Application (2021-2026) & (Tons)
- Table 53. Europe Alumina Aerogel Sales by Country (2021-2026) & (Tons)
- Table 54. Europe Alumina Aerogel Revenue by Country (2021-2026) & (\$ millions)
- Table 55. Europe Alumina Aerogel Sales by Type (2021-2026) & (Tons)
- Table 56. Europe Alumina Aerogel Sales by Application (2021-2026) & (Tons)
- Table 57. Middle East & Africa Alumina Aerogel Sales by Country (2021-2026) & (Tons)
- Table 58. Middle East & Africa Alumina Aerogel Revenue Market Share by Country (2021-2026)
- Table 59. Middle East & Africa Alumina Aerogel Sales by Type (2021-2026) & (Tons)
- Table 60. Middle East & Africa Alumina Aerogel Sales by Application (2021-2026) & (Tons)
- Table 61. Key Market Drivers & Growth Opportunities of Alumina Aerogel
- Table 62. Key Market Challenges & Risks of Alumina Aerogel
- Table 63. Key Industry Trends of Alumina Aerogel

- Table 64. Alumina Aerogel Raw Material
- Table 65. Key Suppliers of Raw Materials
- Table 66. Alumina Aerogel Distributors List
- Table 67. Alumina Aerogel Customer List
- Table 68. Global Alumina Aerogel Sales Forecast by Region (2027-2032) & (Tons)
- Table 69. Global Alumina Aerogel Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 70. Americas Alumina Aerogel Sales Forecast by Country (2027-2032) & (Tons)
- Table 71. Americas Alumina Aerogel Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 72. APAC Alumina Aerogel Sales Forecast by Region (2027-2032) & (Tons)
- Table 73. APAC Alumina Aerogel Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 74. Europe Alumina Aerogel Sales Forecast by Country (2027-2032) & (Tons)
- Table 75. Europe Alumina Aerogel Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 76. Middle East & Africa Alumina Aerogel Sales Forecast by Country (2027-2032) & (Tons)
- Table 77. Middle East & Africa Alumina Aerogel Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 78. Global Alumina Aerogel Sales Forecast by Type (2027-2032) & (Tons)
- Table 79. Global Alumina Aerogel Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 80. Global Alumina Aerogel Sales Forecast by Application (2027-2032) & (Tons)
- Table 81. Global Alumina Aerogel Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 82. Aspen Aerogels (USA) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 83. Aspen Aerogels (USA) Alumina Aerogel Product Portfolios and Specifications
- Table 84. Aspen Aerogels (USA) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 85. Aspen Aerogels (USA) Main Business
- Table 86. Aspen Aerogels (USA) Latest Developments
- Table 87. Cabot Corporation (USA) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 88. Cabot Corporation (USA) Alumina Aerogel Product Portfolios and Specifications
- Table 89. Cabot Corporation (USA) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

- Table 90. Cabot Corporation (USA) Main Business
- Table 91. Cabot Corporation (USA) Latest Developments
- Table 92. Aerogel Technologies (USA) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 93. Aerogel Technologies (USA) Alumina Aerogel Product Portfolios and Specifications
- Table 94. Aerogel Technologies (USA) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 95. Aerogel Technologies (USA) Main Business
- Table 96. Aerogel Technologies (USA) Latest Developments
- Table 97. BASF (Germany) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 98. BASF (Germany) Alumina Aerogel Product Portfolios and Specifications
- Table 99. BASF (Germany) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 100. BASF (Germany) Main Business
- Table 101. BASF (Germany) Latest Developments
- Table 102. Armacell (Luxembourg) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 103. Armacell (Luxembourg) Alumina Aerogel Product Portfolios and Specifications
- Table 104. Armacell (Luxembourg) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 105. Armacell (Luxembourg) Main Business
- Table 106. Armacell (Luxembourg) Latest Developments
- Table 107. Enersens (France) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 108. Enersens (France) Alumina Aerogel Product Portfolios and Specifications
- Table 109. Enersens (France) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 110. Enersens (France) Main Business
- Table 111. Enersens (France) Latest Developments
- Table 112. Svenska Aerogel (Sweden) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 113. Svenska Aerogel (Sweden) Alumina Aerogel Product Portfolios and Specifications
- Table 114. Svenska Aerogel (Sweden) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 115. Svenska Aerogel (Sweden) Main Business

Table 116. Svenska Aerogel (Sweden) Latest Developments

Table 117. Blueshift Materials (USA) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors

Table 118. Blueshift Materials (USA) Alumina Aerogel Product Portfolios and Specifications

Table 119. Blueshift Materials (USA) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 120. Blueshift Materials (USA) Main Business

Table 121. Blueshift Materials (USA) Latest Developments

Table 122. Active Aerogels (Portugal) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors

Table 123. Active Aerogels (Portugal) Alumina Aerogel Product Portfolios and Specifications

Table 124. Active Aerogels (Portugal) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 125. Active Aerogels (Portugal) Main Business

Table 126. Active Aerogels (Portugal) Latest Developments

Table 127. JIOS Aerogel (South Korea) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors

Table 128. JIOS Aerogel (South Korea) Alumina Aerogel Product Portfolios and Specifications

Table 129. JIOS Aerogel (South Korea) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 130. JIOS Aerogel (South Korea) Main Business

Table 131. JIOS Aerogel (South Korea) Latest Developments

Table 132. Surnano Aerogel (China) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors

Table 133. Surnano Aerogel (China) Alumina Aerogel Product Portfolios and Specifications

Table 134. Surnano Aerogel (China) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 135. Surnano Aerogel (China) Main Business

Table 136. Surnano Aerogel (China) Latest Developments

Table 137. Thermablok Aerogels (UK) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors

Table 138. Thermablok Aerogels (UK) Alumina Aerogel Product Portfolios and Specifications

Table 139. Thermablok Aerogels (UK) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

- Table 140. Thermablok Aerogels (UK) Main Business
- Table 141. Thermablok Aerogels (UK) Latest Developments
- Table 142. AeroGel Solutions (USA) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 143. AeroGel Solutions (USA) Alumina Aerogel Product Portfolios and Specifications
- Table 144. AeroGel Solutions (USA) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 145. AeroGel Solutions (USA) Main Business
- Table 146. AeroGel Solutions (USA) Latest Developments
- Table 147. Wacker Chemie (Germany) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 148. Wacker Chemie (Germany) Alumina Aerogel Product Portfolios and Specifications
- Table 149. Wacker Chemie (Germany) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 150. Wacker Chemie (Germany) Main Business
- Table 151. Wacker Chemie (Germany) Latest Developments
- Table 152. Mogul Aerogel (Turkey) Basic Information, Alumina Aerogel Manufacturing Base, Sales Area and Its Competitors
- Table 153. Mogul Aerogel (Turkey) Alumina Aerogel Product Portfolios and Specifications
- Table 154. Mogul Aerogel (Turkey) Alumina Aerogel Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 155. Mogul Aerogel (Turkey) Main Business
- Table 156. Mogul Aerogel (Turkey) Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Alumina Aerogel
- Figure 2. Alumina Aerogel Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Alumina Aerogel Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Alumina Aerogel Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Alumina Aerogel Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Alumina Aerogel Sales Market Share by Country/Region (2025)
- Figure 10. Alumina Aerogel Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Amorphous Alumina Aerogel
- Figure 12. Product Picture of γ -Alumina Aerogel
- Figure 13. Product Picture of α -Alumina Aerogel
- Figure 14. Product Picture of β -Alumina Aerogel
- Figure 15. Global Alumina Aerogel Sales Market Share by Type in 2026
- Figure 16. Global Alumina Aerogel Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Standard High Temperature (1,200°C)
- Figure 20. Global Alumina Aerogel Sales Market Share by Thermal Performance in 2026
- Figure 21. Global Alumina Aerogel Revenue Market Share by Thermal Performance (2021-2026)
- Figure 22. Alumina Aerogel Consumed in Aerospace & Defense
- Figure 23. Global Alumina Aerogel Market: Aerospace & Defense (2021-2026) & (Tons)
- Figure 24. Alumina Aerogel Consumed in Petrochemical
- Figure 25. Global Alumina Aerogel Market: Petrochemical (2021-2026) & (Tons)
- Figure 26. Alumina Aerogel Consumed in Industrial Insulation
- Figure 27. Global Alumina Aerogel Market: Industrial Insulation (2021-2026) & (Tons)
- Figure 28. Alumina Aerogel Consumed in Battery Production
- Figure 29. Global Alumina Aerogel Market: Battery Production (2021-2026) & (Tons)
- Figure 30. Alumina Aerogel Consumed in Energy & Power
- Figure 31. Global Alumina Aerogel Market: Energy & Power (2021-2026) & (Tons)
- Figure 32. Alumina Aerogel Consumed in Others
- Figure 33. Global Alumina Aerogel Market: Others (2021-2026) & (Tons)

- Figure 34. Global Alumina Aerogel Sale Market Share by Application (2025)
- Figure 35. Global Alumina Aerogel Revenue Market Share by Application in 2025
- Figure 36. Alumina Aerogel Sales by Company in 2025 (Tons)
- Figure 37. Global Alumina Aerogel Sales Market Share by Company in 2025
- Figure 38. Alumina Aerogel Revenue by Company in 2025 (\$ millions)
- Figure 39. Global Alumina Aerogel Revenue Market Share by Company in 2025
- Figure 40. Global Alumina Aerogel Sales Market Share by Geographic Region (2021-2026)
- Figure 41. Global Alumina Aerogel Revenue Market Share by Geographic Region in 2025
- Figure 42. Americas Alumina Aerogel Sales 2021-2026 (Tons)
- Figure 43. Americas Alumina Aerogel Revenue 2021-2026 (\$ millions)
- Figure 44. APAC Alumina Aerogel Sales 2021-2026 (Tons)
- Figure 45. APAC Alumina Aerogel Revenue 2021-2026 (\$ millions)
- Figure 46. Europe Alumina Aerogel Sales 2021-2026 (Tons)
- Figure 47. Europe Alumina Aerogel Revenue 2021-2026 (\$ millions)
- Figure 48. Middle East & Africa Alumina Aerogel Sales 2021-2026 (Tons)
- Figure 49. Middle East & Africa Alumina Aerogel Revenue 2021-2026 (\$ millions)
- Figure 50. Americas Alumina Aerogel Sales Market Share by Country in 2025
- Figure 51. Americas Alumina Aerogel Revenue Market Share by Country (2021-2026)
- Figure 52. Americas Alumina Aerogel Sales Market Share by Type (2021-2026)
- Figure 53. Americas Alumina Aerogel Sales Market Share by Application (2021-2026)
- Figure 54. United States Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Canada Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Mexico Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 57. Brazil Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 58. APAC Alumina Aerogel Sales Market Share by Region in 2025
- Figure 59. APAC Alumina Aerogel Revenue Market Share by Region (2021-2026)
- Figure 60. APAC Alumina Aerogel Sales Market Share by Type (2021-2026)
- Figure 61. APAC Alumina Aerogel Sales Market Share by Application (2021-2026)
- Figure 62. China Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Japan Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 64. South Korea Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Southeast Asia Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 66. India Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Australia Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 68. China Taiwan Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Europe Alumina Aerogel Sales Market Share by Country in 2025
- Figure 70. Europe Alumina Aerogel Revenue Market Share by Country (2021-2026)

- Figure 71. Europe Alumina Aerogel Sales Market Share by Type (2021-2026)
- Figure 72. Europe Alumina Aerogel Sales Market Share by Application (2021-2026)
- Figure 73. Germany Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 74. France Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 75. UK Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Italy Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Russia Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Middle East & Africa Alumina Aerogel Sales Market Share by Country (2021-2026)
- Figure 79. Middle East & Africa Alumina Aerogel Sales Market Share by Type (2021-2026)
- Figure 80. Middle East & Africa Alumina Aerogel Sales Market Share by Application (2021-2026)
- Figure 81. Egypt Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 82. South Africa Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Israel Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Turkey Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 85. GCC Countries Alumina Aerogel Revenue Growth 2021-2026 (\$ millions)
- Figure 86. Manufacturing Cost Structure Analysis of Alumina Aerogel in 2026
- Figure 87. Manufacturing Process Analysis of Alumina Aerogel
- Figure 88. Industry Chain Structure of Alumina Aerogel
- Figure 89. Channels of Distribution
- Figure 90. Global Alumina Aerogel Sales Market Forecast by Region (2027-2032)
- Figure 91. Global Alumina Aerogel Revenue Market Share Forecast by Region (2027-2032)
- Figure 92. Global Alumina Aerogel Sales Market Share Forecast by Type (2027-2032)
- Figure 93. Global Alumina Aerogel Revenue Market Share Forecast by Type (2027-2032)
- Figure 94. Global Alumina Aerogel Sales Market Share Forecast by Application (2027-2032)
- Figure 95. Global Alumina Aerogel Revenue Market Share Forecast by Application (2027-2032)

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