

# **Global Silica Aerogel Blanket 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 Silica Aerogel Blanket market size was valued at US\$ 733 million in 2024 and is forecast to a readjusted size of USD 1969 million by 2031 with a CAGR of 15.3% during review period.

Silica aerogel is a highly porous and ultralight material primarily composed of silica, renowned for its exceptional properties such as extremely low density, high surface area, and outstanding thermal insulation. It is produced by removing the liquid component from a gel, resulting in a solid structure filled with air, giving it a unique honeycomb-like network of interconnected particles. This structure imparts aerogels with their signature ultralight weight and excellent insulation capabilities. The pore sizes in silica aerogel typically fall below 100 nm, and particle sizes are usually less than 20 nm, making them one of the most efficient thermal insulators available today. Given these characteristics, silica aerogels are commonly referred to as 'frozen smoke' or 'solid air' due to their translucent appearance and low weight. They are primarily used in applications requiring high-performance insulation, but their absorbent properties also make them useful in areas like oil spill cleanup, noise control, and environmental protection.

The global market for silica aerogels is experiencing notable growth, driven by their increasing use in high-performance applications, particularly in energy storage and electric vehicle (EV) battery systems. With growing safety requirements for EV batteries, silica aerogels have emerged as critical thermal insulation materials that can significantly improve battery pack safety by preventing thermal runaway. This is especially important in high-energy-density lithium-ion batteries, where safety concerns are paramount. Silica aerogels are also gaining traction in other battery technologies,

such as phosphate-based and energy storage batteries, as demand for high-end insulation solutions grows alongside battery production. Furthermore, the industrial sector is expanding its use of silica aerogels in applications such as oil spill management, noise control, and heat insulation in various environments. Despite the benefits, key challenges such as high production costs and environmental concerns during manufacturing remain obstacles. However, with ongoing advancements in aerogel technology, coupled with a global shift toward sustainability, new opportunities are emerging. Silica aerogels are well-positioned to play a larger role in green construction, renewable energy, and other eco-friendly sectors, where their lightweight, insulating properties are highly valued. This trend suggests a strong growth trajectory for silica aerogels in the coming years.

This report is a detailed and comprehensive analysis for global Silica Aerogel Blanket 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 Silica Aerogel Blanket market size and forecasts, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (USD/sqm), 2020-2031

Global Silica Aerogel Blanket market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (USD/sqm), 2020-2031

Global Silica Aerogel Blanket market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (USD/sqm), 2020-2031

Global Silica Aerogel Blanket market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sq.m), and ASP (USD/sqm), 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 Silica Aerogel Blanket

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 Silica Aerogel Blanket 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 Aspen, Cabot, Armacell, Nanotechnology, Guangdong Alison High-tech Co., Ltd., Aerogel Technologies, Active Aerogels, Enersens, Benarx, Aerospace Wujiang, etc.

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

## Market Segmentation

Silica Aerogel Blanket 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

Below 5mm Thickness

5mm to 10 mm Thickness

Above 10mm Thickness

### Market segment by Application

Building Insulation

Oil & Gas

Transportation

Aerospace & Defence Materials

Other

#### Major players covered

Aspen

Cabot

Armacell

Nanotechnology

Guangdong Alison High-tech Co., Ltd.

Aerogel Technologies

Active Aerogels

Enersens

Benarx

Aerospace Wujiang

Zhongning Technology

Xiamen Namet

IBIH

Van-Research

Jiangsu Jiayun New Materials

Zhongke Runzi Technology

Hualu Aerogel

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 Silica Aerogel Blanket product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silica Aerogel Blanket, with price, sales quantity, revenue, and global market share of Silica Aerogel Blanket from 2020 to 2025.

Chapter 3, the Silica Aerogel Blanket competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silica Aerogel Blanket 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 Silica Aerogel Blanket 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 Silica Aerogel Blanket.

Chapter 14 and 15, to describe Silica Aerogel Blanket sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Silica Aerogel Blanket Consumption Value by Type: 2020 Versus 2024 Versus 2031
  - 1.3.2 Below 5mm Thickness
  - 1.3.3 5mm to 10 mm Thickness
  - 1.3.4 Above 10mm Thickness
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Silica Aerogel Blanket Consumption Value by Application: 2020 Versus 2024 Versus 2031
  - 1.4.2 Building Insulation
  - 1.4.3 Oil & Gas
  - 1.4.4 Transportation
  - 1.4.5 Aerospace & Defence Materials
  - 1.4.6 Other
- 1.5 Global Silica Aerogel Blanket Market Size & Forecast
  - 1.5.1 Global Silica Aerogel Blanket Consumption Value (2020 & 2024 & 2031)
  - 1.5.2 Global Silica Aerogel Blanket Sales Quantity (2020-2031)
  - 1.5.3 Global Silica Aerogel Blanket Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

- 2.1 Aspen
  - 2.1.1 Aspen Details
  - 2.1.2 Aspen Major Business
  - 2.1.3 Aspen Silica Aerogel Blanket Product and Services
  - 2.1.4 Aspen Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.1.5 Aspen Recent Developments/Updates
- 2.2 Cabot
  - 2.2.1 Cabot Details
  - 2.2.2 Cabot Major Business
  - 2.2.3 Cabot Silica Aerogel Blanket Product and Services
  - 2.2.4 Cabot Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross

## Margin and Market Share (2020-2025)

### 2.2.5 Cabot Recent Developments/Updates

## 2.3 Armacell

### 2.3.1 Armacell Details

### 2.3.2 Armacell Major Business

### 2.3.3 Armacell Silica Aerogel Blanket Product and Services

### 2.3.4 Armacell Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.3.5 Armacell Recent Developments/Updates

## 2.4 Nanotechnology

### 2.4.1 Nanotechnology Details

### 2.4.2 Nanotechnology Major Business

### 2.4.3 Nanotechnology Silica Aerogel Blanket Product and Services

### 2.4.4 Nanotechnology Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.4.5 Nanotechnology Recent Developments/Updates

## 2.5 Guangdong Alison High-tech Co., Ltd.

### 2.5.1 Guangdong Alison High-tech Co., Ltd. Details

### 2.5.2 Guangdong Alison High-tech Co., Ltd. Major Business

### 2.5.3 Guangdong Alison High-tech Co., Ltd. Silica Aerogel Blanket Product and Services

### 2.5.4 Guangdong Alison High-tech Co., Ltd. Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.5.5 Guangdong Alison High-tech Co., Ltd. Recent Developments/Updates

## 2.6 Aerogel Technologies

### 2.6.1 Aerogel Technologies Details

### 2.6.2 Aerogel Technologies Major Business

### 2.6.3 Aerogel Technologies Silica Aerogel Blanket Product and Services

### 2.6.4 Aerogel Technologies Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.6.5 Aerogel Technologies Recent Developments/Updates

## 2.7 Active Aerogels

### 2.7.1 Active Aerogels Details

### 2.7.2 Active Aerogels Major Business

### 2.7.3 Active Aerogels Silica Aerogel Blanket Product and Services

### 2.7.4 Active Aerogels Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.7.5 Active Aerogels Recent Developments/Updates

## 2.8 Enersens



- 2.8.1 Enersens Details
- 2.8.2 Enersens Major Business
- 2.8.3 Enersens Silica Aerogel Blanket Product and Services
- 2.8.4 Enersens Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Enersens Recent Developments/Updates
- 2.9 Benarx
  - 2.9.1 Benarx Details
  - 2.9.2 Benarx Major Business
  - 2.9.3 Benarx Silica Aerogel Blanket Product and Services
  - 2.9.4 Benarx Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.9.5 Benarx Recent Developments/Updates
- 2.10 Aerospace Wujiang
  - 2.10.1 Aerospace Wujiang Details
  - 2.10.2 Aerospace Wujiang Major Business
  - 2.10.3 Aerospace Wujiang Silica Aerogel Blanket Product and Services
  - 2.10.4 Aerospace Wujiang Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.10.5 Aerospace Wujiang Recent Developments/Updates
- 2.11 Zhongning Technology
  - 2.11.1 Zhongning Technology Details
  - 2.11.2 Zhongning Technology Major Business
  - 2.11.3 Zhongning Technology Silica Aerogel Blanket Product and Services
  - 2.11.4 Zhongning Technology Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.11.5 Zhongning Technology Recent Developments/Updates
- 2.12 Xiamen Namet
  - 2.12.1 Xiamen Namet Details
  - 2.12.2 Xiamen Namet Major Business
  - 2.12.3 Xiamen Namet Silica Aerogel Blanket Product and Services
  - 2.12.4 Xiamen Namet Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.12.5 Xiamen Namet Recent Developments/Updates
- 2.13 IBIH
  - 2.13.1 IBIH Details
  - 2.13.2 IBIH Major Business
  - 2.13.3 IBIH Silica Aerogel Blanket Product and Services
  - 2.13.4 IBIH Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross

## Margin and Market Share (2020-2025)

### 2.13.5 IBIH Recent Developments/Updates

## 2.14 Van-Research

### 2.14.1 Van-Research Details

### 2.14.2 Van-Research Major Business

### 2.14.3 Van-Research Silica Aerogel Blanket Product and Services

### 2.14.4 Van-Research Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.14.5 Van-Research Recent Developments/Updates

## 2.15 Jiangsu Jiayun New Materials

### 2.15.1 Jiangsu Jiayun New Materials Details

### 2.15.2 Jiangsu Jiayun New Materials Major Business

### 2.15.3 Jiangsu Jiayun New Materials Silica Aerogel Blanket Product and Services

### 2.15.4 Jiangsu Jiayun New Materials Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.15.5 Jiangsu Jiayun New Materials Recent Developments/Updates

## 2.16 Zhongke Runzi Technology

### 2.16.1 Zhongke Runzi Technology Details

### 2.16.2 Zhongke Runzi Technology Major Business

### 2.16.3 Zhongke Runzi Technology Silica Aerogel Blanket Product and Services

### 2.16.4 Zhongke Runzi Technology Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.16.5 Zhongke Runzi Technology Recent Developments/Updates

## 2.17 Hualu Aerogel

### 2.17.1 Hualu Aerogel Details

### 2.17.2 Hualu Aerogel Major Business

### 2.17.3 Hualu Aerogel Silica Aerogel Blanket Product and Services

### 2.17.4 Hualu Aerogel Silica Aerogel Blanket Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.17.5 Hualu Aerogel Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: SILICA AEROGEL BLANKET BY MANUFACTURER**

### 3.1 Global Silica Aerogel Blanket Sales Quantity by Manufacturer (2020-2025)

### 3.2 Global Silica Aerogel Blanket Revenue by Manufacturer (2020-2025)

### 3.3 Global Silica Aerogel Blanket Average Price by Manufacturer (2020-2025)

### 3.4 Market Share Analysis (2024)

#### 3.4.1 Producer Shipments of Silica Aerogel Blanket by Manufacturer Revenue (\$MM)

and Market Share (%): 2024

3.4.2 Top 3 Silica Aerogel Blanket Manufacturer Market Share in 2024

3.4.3 Top 6 Silica Aerogel Blanket Manufacturer Market Share in 2024

3.5 Silica Aerogel Blanket Market: Overall Company Footprint Analysis

3.5.1 Silica Aerogel Blanket Market: Region Footprint

3.5.2 Silica Aerogel Blanket Market: Company Product Type Footprint

3.5.3 Silica Aerogel Blanket Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global Silica Aerogel Blanket Market Size by Region

4.1.1 Global Silica Aerogel Blanket Sales Quantity by Region (2020-2031)

4.1.2 Global Silica Aerogel Blanket Consumption Value by Region (2020-2031)

4.1.3 Global Silica Aerogel Blanket Average Price by Region (2020-2031)

4.2 North America Silica Aerogel Blanket Consumption Value (2020-2031)

4.3 Europe Silica Aerogel Blanket Consumption Value (2020-2031)

4.4 Asia-Pacific Silica Aerogel Blanket Consumption Value (2020-2031)

4.5 South America Silica Aerogel Blanket Consumption Value (2020-2031)

4.6 Middle East & Africa Silica Aerogel Blanket Consumption Value (2020-2031)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Silica Aerogel Blanket Sales Quantity by Type (2020-2031)

5.2 Global Silica Aerogel Blanket Consumption Value by Type (2020-2031)

5.3 Global Silica Aerogel Blanket Average Price by Type (2020-2031)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Silica Aerogel Blanket Sales Quantity by Application (2020-2031)

6.2 Global Silica Aerogel Blanket Consumption Value by Application (2020-2031)

6.3 Global Silica Aerogel Blanket Average Price by Application (2020-2031)

## **7 NORTH AMERICA**

7.1 North America Silica Aerogel Blanket Sales Quantity by Type (2020-2031)

7.2 North America Silica Aerogel Blanket Sales Quantity by Application (2020-2031)

7.3 North America Silica Aerogel Blanket Market Size by Country

7.3.1 North America Silica Aerogel Blanket Sales Quantity by Country (2020-2031)

7.3.2 North America Silica Aerogel Blanket Consumption Value by Country  
(2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

## **8 EUROPE**

8.1 Europe Silica Aerogel Blanket Sales Quantity by Type (2020-2031)

8.2 Europe Silica Aerogel Blanket Sales Quantity by Application (2020-2031)

8.3 Europe Silica Aerogel Blanket Market Size by Country

8.3.1 Europe Silica Aerogel Blanket Sales Quantity by Country (2020-2031)

8.3.2 Europe Silica Aerogel Blanket Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Silica Aerogel Blanket Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Silica Aerogel Blanket Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Silica Aerogel Blanket Market Size by Region

9.3.1 Asia-Pacific Silica Aerogel Blanket Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Silica Aerogel Blanket Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

## **10 SOUTH AMERICA**

10.1 South America Silica Aerogel Blanket Sales Quantity by Type (2020-2031)

10.2 South America Silica Aerogel Blanket Sales Quantity by Application (2020-2031)

10.3 South America Silica Aerogel Blanket Market Size by Country

- 10.3.1 South America Silica Aerogel Blanket Sales Quantity by Country (2020-2031)
- 10.3.2 South America Silica Aerogel Blanket Consumption Value by Country (2020-2031)
- 10.3.3 Brazil Market Size and Forecast (2020-2031)
- 10.3.4 Argentina Market Size and Forecast (2020-2031)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Silica Aerogel Blanket Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa Silica Aerogel Blanket Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa Silica Aerogel Blanket Market Size by Country
  - 11.3.1 Middle East & Africa Silica Aerogel Blanket Sales Quantity by Country (2020-2031)
  - 11.3.2 Middle East & Africa Silica Aerogel Blanket Consumption Value by Country (2020-2031)
  - 11.3.3 Turkey Market Size and Forecast (2020-2031)
  - 11.3.4 Egypt Market Size and Forecast (2020-2031)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
  - 11.3.6 South Africa Market Size and Forecast (2020-2031)

## **12 MARKET DYNAMICS**

- 12.1 Silica Aerogel Blanket Market Drivers
- 12.2 Silica Aerogel Blanket Market Restraints
- 12.3 Silica Aerogel Blanket Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Silica Aerogel Blanket and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Silica Aerogel Blanket
- 13.3 Silica Aerogel Blanket Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

### **14.1 Sales Channel**

#### **14.1.1 Direct to End-User**

#### **14.1.2 Distributors**

### **14.2 Silica Aerogel Blanket Typical Distributors**

### **14.3 Silica Aerogel Blanket Typical Customers**

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

### **16.1 Methodology**

### **16.2 Research Process and Data Source**

### **16.3 Disclaimer**



## List Of Tables

### LIST OF TABLES

Table 1. Global Silica Aerogel Blanket Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Silica Aerogel Blanket Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Aspen Basic Information, Manufacturing Base and Competitors

Table 4. Aspen Major Business

Table 5. Aspen Silica Aerogel Blanket Product and Services

Table 6. Aspen Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Aspen Recent Developments/Updates

Table 8. Cabot Basic Information, Manufacturing Base and Competitors

Table 9. Cabot Major Business

Table 10. Cabot Silica Aerogel Blanket Product and Services

Table 11. Cabot Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Cabot Recent Developments/Updates

Table 13. Armacell Basic Information, Manufacturing Base and Competitors

Table 14. Armacell Major Business

Table 15. Armacell Silica Aerogel Blanket Product and Services

Table 16. Armacell Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Armacell Recent Developments/Updates

Table 18. Nanotechnology Basic Information, Manufacturing Base and Competitors

Table 19. Nanotechnology Major Business

Table 20. Nanotechnology Silica Aerogel Blanket Product and Services

Table 21. Nanotechnology Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Nanotechnology Recent Developments/Updates

Table 23. Guangdong Alison High-tech Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 24. Guangdong Alison High-tech Co., Ltd. Major Business

Table 25. Guangdong Alison High-tech Co., Ltd. Silica Aerogel Blanket Product and Services

Table 26. Guangdong Alison High-tech Co., Ltd. Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market

Share (2020-2025)

Table 27. Guangdong Alison High-tech Co., Ltd. Recent Developments/Updates

Table 28. Aerogel Technologies Basic Information, Manufacturing Base and Competitors

Table 29. Aerogel Technologies Major Business

Table 30. Aerogel Technologies Silica Aerogel Blanket Product and Services

Table 31. Aerogel Technologies Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Aerogel Technologies Recent Developments/Updates

Table 33. Active Aerogels Basic Information, Manufacturing Base and Competitors

Table 34. Active Aerogels Major Business

Table 35. Active Aerogels Silica Aerogel Blanket Product and Services

Table 36. Active Aerogels Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Active Aerogels Recent Developments/Updates

Table 38. Enersens Basic Information, Manufacturing Base and Competitors

Table 39. Enersens Major Business

Table 40. Enersens Silica Aerogel Blanket Product and Services

Table 41. Enersens Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Enersens Recent Developments/Updates

Table 43. Benarx Basic Information, Manufacturing Base and Competitors

Table 44. Benarx Major Business

Table 45. Benarx Silica Aerogel Blanket Product and Services

Table 46. Benarx Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Benarx Recent Developments/Updates

Table 48. Aerospace Wujiang Basic Information, Manufacturing Base and Competitors

Table 49. Aerospace Wujiang Major Business

Table 50. Aerospace Wujiang Silica Aerogel Blanket Product and Services

Table 51. Aerospace Wujiang Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Aerospace Wujiang Recent Developments/Updates

Table 53. Zhongning Technology Basic Information, Manufacturing Base and Competitors

Table 54. Zhongning Technology Major Business

Table 55. Zhongning Technology Silica Aerogel Blanket Product and Services

Table 56. Zhongning Technology Silica Aerogel Blanket Sales Quantity (K Sq.m),



Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. Zhongning Technology Recent Developments/Updates

Table 58. Xiamen Namet Basic Information, Manufacturing Base and Competitors

Table 59. Xiamen Namet Major Business

Table 60. Xiamen Namet Silica Aerogel Blanket Product and Services

Table 61. Xiamen Namet Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Xiamen Namet Recent Developments/Updates

Table 63. IBIH Basic Information, Manufacturing Base and Competitors

Table 64. IBIH Major Business

Table 65. IBIH Silica Aerogel Blanket Product and Services

Table 66. IBIH Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. IBIH Recent Developments/Updates

Table 68. Van-Research Basic Information, Manufacturing Base and Competitors

Table 69. Van-Research Major Business

Table 70. Van-Research Silica Aerogel Blanket Product and Services

Table 71. Van-Research Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Van-Research Recent Developments/Updates

Table 73. Jiangsu Jiayun New Materials Basic Information, Manufacturing Base and Competitors

Table 74. Jiangsu Jiayun New Materials Major Business

Table 75. Jiangsu Jiayun New Materials Silica Aerogel Blanket Product and Services

Table 76. Jiangsu Jiayun New Materials Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Jiangsu Jiayun New Materials Recent Developments/Updates

Table 78. Zhongke Runzi Technology Basic Information, Manufacturing Base and Competitors

Table 79. Zhongke Runzi Technology Major Business

Table 80. Zhongke Runzi Technology Silica Aerogel Blanket Product and Services

Table 81. Zhongke Runzi Technology Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. Zhongke Runzi Technology Recent Developments/Updates

Table 83. Hualu Aerogel Basic Information, Manufacturing Base and Competitors

Table 84. Hualu Aerogel Major Business

Table 85. Hualu Aerogel Silica Aerogel Blanket Product and Services
Table 86. Hualu Aerogel Silica Aerogel Blanket Sales Quantity (K Sq.m), Average Price (USD/sqm), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 87. Hualu Aerogel Recent Developments/Updates
Table 88. Global Silica Aerogel Blanket Sales Quantity by Manufacturer (2020-2025) & (K Sq.m)
Table 89. Global Silica Aerogel Blanket Revenue by Manufacturer (2020-2025) & (USD Million)
Table 90. Global Silica Aerogel Blanket Average Price by Manufacturer (2020-2025) & (USD/sqm)
Table 91. Market Position of Manufacturers in Silica Aerogel Blanket, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
Table 92. Head Office and Silica Aerogel Blanket Production Site of Key Manufacturer
Table 93. Silica Aerogel Blanket Market: Company Product Type Footprint
Table 94. Silica Aerogel Blanket Market: Company Product Application Footprint
Table 95. Silica Aerogel Blanket New Market Entrants and Barriers to Market Entry
Table 96. Silica Aerogel Blanket Mergers, Acquisition, Agreements, and Collaborations
Table 97. Global Silica Aerogel Blanket Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR
Table 98. Global Silica Aerogel Blanket Sales Quantity by Region (2020-2025) & (K Sq.m)
Table 99. Global Silica Aerogel Blanket Sales Quantity by Region (2026-2031) & (K Sq.m)
Table 100. Global Silica Aerogel Blanket Consumption Value by Region (2020-2025) & (USD Million)
Table 101. Global Silica Aerogel Blanket Consumption Value by Region (2026-2031) & (USD Million)
Table 102. Global Silica Aerogel Blanket Average Price by Region (2020-2025) & (USD/sqm)
Table 103. Global Silica Aerogel Blanket Average Price by Region (2026-2031) & (USD/sqm)
Table 104. Global Silica Aerogel Blanket Sales Quantity by Type (2020-2025) & (K Sq.m)
Table 105. Global Silica Aerogel Blanket Sales Quantity by Type (2026-2031) & (K Sq.m)
Table 106. Global Silica Aerogel Blanket Consumption Value by Type (2020-2025) & (USD Million)
Table 107. Global Silica Aerogel Blanket Consumption Value by Type (2026-2031) & (USD Million)

Table 108. Global Silica Aerogel Blanket Average Price by Type (2020-2025) & (USD/sqm)

Table 109. Global Silica Aerogel Blanket Average Price by Type (2026-2031) & (USD/sqm)

Table 110. Global Silica Aerogel Blanket Sales Quantity by Application (2020-2025) & (K Sq.m)

Table 111. Global Silica Aerogel Blanket Sales Quantity by Application (2026-2031) & (K Sq.m)

Table 112. Global Silica Aerogel Blanket Consumption Value by Application (2020-2025) & (USD Million)

Table 113. Global Silica Aerogel Blanket Consumption Value by Application (2026-2031) & (USD Million)

Table 114. Global Silica Aerogel Blanket Average Price by Application (2020-2025) & (USD/sqm)

Table 115. Global Silica Aerogel Blanket Average Price by Application (2026-2031) & (USD/sqm)

Table 116. North America Silica Aerogel Blanket Sales Quantity by Type (2020-2025) & (K Sq.m)

Table 117. North America Silica Aerogel Blanket Sales Quantity by Type (2026-2031) & (K Sq.m)

Table 118. North America Silica Aerogel Blanket Sales Quantity by Application (2020-2025) & (K Sq.m)

Table 119. North America Silica Aerogel Blanket Sales Quantity by Application (2026-2031) & (K Sq.m)

Table 120. North America Silica Aerogel Blanket Sales Quantity by Country (2020-2025) & (K Sq.m)

Table 121. North America Silica Aerogel Blanket Sales Quantity by Country (2026-2031) & (K Sq.m)

Table 122. North America Silica Aerogel Blanket Consumption Value by Country (2020-2025) & (USD Million)

Table 123. North America Silica Aerogel Blanket Consumption Value by Country (2026-2031) & (USD Million)

Table 124. Europe Silica Aerogel Blanket Sales Quantity by Type (2020-2025) & (K Sq.m)

Table 125. Europe Silica Aerogel Blanket Sales Quantity by Type (2026-2031) & (K Sq.m)

Table 126. Europe Silica Aerogel Blanket Sales Quantity by Application (2020-2025) & (K Sq.m)

Table 127. Europe Silica Aerogel Blanket Sales Quantity by Application (2026-2031) &

(K Sq.m)

Table 128. Europe Silica Aerogel Blanket Sales Quantity by Country (2020-2025) & (K Sq.m)

Table 129. Europe Silica Aerogel Blanket Sales Quantity by Country (2026-2031) & (K Sq.m)

Table 130. Europe Silica Aerogel Blanket Consumption Value by Country (2020-2025) & (USD Million)

Table 131. Europe Silica Aerogel Blanket Consumption Value by Country (2026-2031) & (USD Million)

Table 132. Asia-Pacific Silica Aerogel Blanket Sales Quantity by Type (2020-2025) & (K Sq.m)

Table 133. Asia-Pacific Silica Aerogel Blanket Sales Quantity by Type (2026-2031) & (K Sq.m)

Table 134. Asia-Pacific Silica Aerogel Blanket Sales Quantity by Application (2020-2025) & (K Sq.m)

Table 135. Asia-Pacific Silica Aerogel Blanket Sales Quantity by Application (2026-2031) & (K Sq.m)

Table 136. Asia-Pacific Silica Aerogel Blanket Sales Quantity by Region (2020-2025) & (K Sq.m)

Table 137. Asia-Pacific Silica Aerogel Blanket Sales Quantity by Region (2026-2031) & (K Sq.m)

Table 138. Asia-Pacific Silica Aerogel Blanket Consumption Value by Region (2020-2025) & (USD Million)

Table 139. Asia-Pacific Silica Aerogel Blanket Consumption Value by Region (2026-2031) & (USD Million)

Table 140. South America Silica Aerogel Blanket Sales Quantity by Type (2020-2025) & (K Sq.m)

Table 141. South America Silica Aerogel Blanket Sales Quantity by Type (2026-2031) & (K Sq.m)

Table 142. South America Silica Aerogel Blanket Sales Quantity by Application (2020-2025) & (K Sq.m)

Table 143. South America Silica Aerogel Blanket Sales Quantity by Application (2026-2031) & (K Sq.m)

Table 144. South America Silica Aerogel Blanket Sales Quantity by Country (2020-2025) & (K Sq.m)

Table 145. South America Silica Aerogel Blanket Sales Quantity by Country (2026-2031) & (K Sq.m)

Table 146. South America Silica Aerogel Blanket Consumption Value by Country (2020-2025) & (USD Million)

Table 147. South America Silica Aerogel Blanket Consumption Value by Country  
(2026-2031) & (USD Million)

Table 148. Middle East & Africa Silica Aerogel Blanket Sales Quantity by Type  
(2020-2025) & (K Sq.m)

Table 149. Middle East & Africa Silica Aerogel Blanket Sales Quantity by Type  
(2026-2031) & (K Sq.m)

Table 150. Middle East & Africa Silica Aerogel Blanket Sales Quantity by Application  
(2020-2025) & (K Sq.m)

Table 151. Middle East & Africa Silica Aerogel Blanket Sales Quantity by Application  
(2026-2031) & (K Sq.m)

Table 152. Middle East & Africa Silica Aerogel Blanket Sales Quantity by Country  
(2020-2025) & (K Sq.m)

Table 153. Middle East & Africa Silica Aerogel Blanket Sales Quantity by Country  
(2026-2031) & (K Sq.m)

Table 154. Middle East & Africa Silica Aerogel Blanket Consumption Value by Country  
(2020-2025) & (USD Million)

Table 155. Middle East & Africa Silica Aerogel Blanket Consumption Value by Country  
(2026-2031) & (USD Million)

Table 156. Silica Aerogel Blanket Raw Material

Table 157. Key Manufacturers of Silica Aerogel Blanket Raw Materials

Table 158. Silica Aerogel Blanket Typical Distributors

Table 159. Silica Aerogel Blanket Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Silica Aerogel Blanket Picture

Figure 2. Global Silica Aerogel Blanket Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Silica Aerogel Blanket Revenue Market Share by Type in 2024

Figure 4. Below 5mm Thickness Examples

Figure 5. 5mm to 10 mm Thickness Examples

Figure 6. Above 10mm Thickness Examples

Figure 7. Global Silica Aerogel Blanket Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global Silica Aerogel Blanket Revenue Market Share by Application in 2024

Figure 9. Building Insulation Examples

Figure 10. Oil & Gas Examples

Figure 11. Transportation Examples

Figure 12. Aerospace & Defence Materials Examples

Figure 13. Other Examples

Figure 14. Global Silica Aerogel Blanket Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 15. Global Silica Aerogel Blanket Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 16. Global Silica Aerogel Blanket Sales Quantity (2020-2031) & (K Sq.m)

Figure 17. Global Silica Aerogel Blanket Price (2020-2031) & (USD/sqm)

Figure 18. Global Silica Aerogel Blanket Sales Quantity Market Share by Manufacturer in 2024

Figure 19. Global Silica Aerogel Blanket Revenue Market Share by Manufacturer in 2024

Figure 20. Producer Shipments of Silica Aerogel Blanket by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 21. Top 3 Silica Aerogel Blanket Manufacturer (Revenue) Market Share in 2024

Figure 22. Top 6 Silica Aerogel Blanket Manufacturer (Revenue) Market Share in 2024

Figure 23. Global Silica Aerogel Blanket Sales Quantity Market Share by Region (2020-2031)

Figure 24. Global Silica Aerogel Blanket Consumption Value Market Share by Region (2020-2031)

Figure 25. North America Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)



Figure 26. Europe Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 27. Asia-Pacific Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 28. South America Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 29. Middle East & Africa Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 30. Global Silica Aerogel Blanket Sales Quantity Market Share by Type (2020-2031)

Figure 31. Global Silica Aerogel Blanket Consumption Value Market Share by Type (2020-2031)

Figure 32. Global Silica Aerogel Blanket Average Price by Type (2020-2031) & (USD/sqm)

Figure 33. Global Silica Aerogel Blanket Sales Quantity Market Share by Application (2020-2031)

Figure 34. Global Silica Aerogel Blanket Revenue Market Share by Application (2020-2031)

Figure 35. Global Silica Aerogel Blanket Average Price by Application (2020-2031) & (USD/sqm)

Figure 36. North America Silica Aerogel Blanket Sales Quantity Market Share by Type (2020-2031)

Figure 37. North America Silica Aerogel Blanket Sales Quantity Market Share by Application (2020-2031)

Figure 38. North America Silica Aerogel Blanket Sales Quantity Market Share by Country (2020-2031)

Figure 39. North America Silica Aerogel Blanket Consumption Value Market Share by Country (2020-2031)

Figure 40. United States Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 41. Canada Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 42. Mexico Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 43. Europe Silica Aerogel Blanket Sales Quantity Market Share by Type (2020-2031)

Figure 44. Europe Silica Aerogel Blanket Sales Quantity Market Share by Application (2020-2031)

Figure 45. Europe Silica Aerogel Blanket Sales Quantity Market Share by Country

(2020-2031)

Figure 46. Europe Silica Aerogel Blanket Consumption Value Market Share by Country (2020-2031)

Figure 47. Germany Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 48. France Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 49. United Kingdom Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 50. Russia Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 51. Italy Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 52. Asia-Pacific Silica Aerogel Blanket Sales Quantity Market Share by Type (2020-2031)

Figure 53. Asia-Pacific Silica Aerogel Blanket Sales Quantity Market Share by Application (2020-2031)

Figure 54. Asia-Pacific Silica Aerogel Blanket Sales Quantity Market Share by Region (2020-2031)

Figure 55. Asia-Pacific Silica Aerogel Blanket Consumption Value Market Share by Region (2020-2031)

Figure 56. China Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 57. Japan Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 58. South Korea Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 59. India Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 60. Southeast Asia Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 61. Australia Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 62. South America Silica Aerogel Blanket Sales Quantity Market Share by Type (2020-2031)

Figure 63. South America Silica Aerogel Blanket Sales Quantity Market Share by Application (2020-2031)

Figure 64. South America Silica Aerogel Blanket Sales Quantity Market Share by Country (2020-2031)

Figure 65. South America Silica Aerogel Blanket Consumption Value Market Share by Country (2020-2031)



Figure 66. Brazil Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 67. Argentina Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 68. Middle East & Africa Silica Aerogel Blanket Sales Quantity Market Share by Type (2020-2031)

Figure 69. Middle East & Africa Silica Aerogel Blanket Sales Quantity Market Share by Application (2020-2031)

Figure 70. Middle East & Africa Silica Aerogel Blanket Sales Quantity Market Share by Country (2020-2031)

Figure 71. Middle East & Africa Silica Aerogel Blanket Consumption Value Market Share by Country (2020-2031)

Figure 72. Turkey Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 73. Egypt Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 74. Saudi Arabia Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 75. South Africa Silica Aerogel Blanket Consumption Value (2020-2031) & (USD Million)

Figure 76. Silica Aerogel Blanket Market Drivers

Figure 77. Silica Aerogel Blanket Market Restraints

Figure 78. Silica Aerogel Blanket Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Silica Aerogel Blanket in 2024

Figure 81. Manufacturing Process Analysis of Silica Aerogel Blanket

Figure 82. Silica Aerogel Blanket Industrial Chain

Figure 83. Sales Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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