

Aerogel Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global aerogel market size reached US\$ 860.6 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,533.7 Million by 2028, exhibiting a growth rate (CAGR) of 10.29% during 2023-2028.

Also known as frozen smoke, aerogel is a translucent, synthetic solid-state substance that has an extremely low density and excellent thermal insulating properties. It is mainly produced by replacing the liquid element of the gel with gas in a high-temperature environment. It is light in weight and has a high surface area, owing to which it is widely utilized in various industrial and commercial applications across the globe.

The market is currently experiencing strong growth on account of the expanding applications of aerogel in numerous end use industries. For instance, it is employed in the aerospace industry in the manufacturing of wetsuits and spacesuits. It is also used in the construction sector as a superlight concrete and wall insulator. Besides this, aerogel serves as a crucial component in the manufacturing of fire suits, spacecraft and vehicles due to its superior thermal insulation property. Additionally, owing to its several other advantageous properties, it is gaining popularity in the electronics, and oil and gas industries worldwide. Furthermore, some of the leading vendors operating in the industry are focusing on increasing their budget for research and development (R&D) activities to introduce polymer-based aerogels that have enhanced strength and flexibility. Such steps are expected to be instrumental in expanding their existing consumer base and market share, thus contributing to the market growth. These factors collectively are projected to fuel the market growth in the upcoming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global aerogel market report, along with forecasts at the global and regional levels from 2023-2028. Our report has categorized the market based on processing, type, form and application.

Breakup by Processing:

- Virgin
- Composites
- Additives

Breakup by Type:

- Silica
- Polymer
- Carbon
- Others

Silica aerogel exhibits a clear dominance in the market.

Breakup by Form:

- Blanket
- Particle
- Panel
- Monolith

At present, blanket accounts for the majority of the total market share.

Breakup by Application:

- Oil and Gas
- Construction
- Transportation
- Electronics
- Others

Aerogel finds vast applications in the oil and gas industry.

Regional Insights:

North America

Europe

Asia Pacific

Middle East and Africa

Latin America

On the geographical front, North America enjoys the leading position in the market.

Competitive Landscape:

The competitive landscape of the market has been analyzed in the report, along with the detailed profiles of the major players operating in the industry. Some of these players are:

Aspen Aerogels, Inc.

BASF SE

Cabot Corporation

The Dow Chemical Company

JIOS Aerogel Corporation

Svenska Aerogel Holding AB

Enersens SAS

Active Aerogels

Nano Tech Co., Ltd.

Guangdong Alison Hi-Tech Co., Ltd.

Intelligent Insulation Ltd.

Surnano Aerogel Co. Ltd.

TAASI Corporation

Protective Polymers Ltd.

Green Earth Aerogel Technology SL

Key Questions Answered in This Report:

How has the global aerogel market performed so far and how will it perform in the coming years?

What are the key regions in the industry?

What has been the impact of COVID-19 on the global aerogel market?

Which are the popular types in the industry?

- What are the leading forms in the industry?
- What are the major processing segments in the industry?
- What are the dominant applications in the industry?
- What are the various stages in the value chain of the industry?
- What are the key driving factors and challenges in the industry?
- What is the structure of the global aerogel market and who are the key players?
- What is the degree of competition in the global aerogel market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

2.1 Objectives of the Study

2.2 Stakeholders

2.3 Data Sources

2.3.1 Primary Sources

2.3.2 Secondary Sources

2.4 Market Estimation

2.4.1 Bottom-Up Approach

2.4.2 Top-Down Approach

2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

4.1 Overview

4.2 Key Industry Trends

5 GLOBAL AEROGEL MARKET

5.1 Market Overview

5.2 Market Performance

5.3 Impact of COVID-19

5.4 Market Breakup by Type

5.5 Market Breakup by Form

5.6 Market Breakup by Processing

5.7 Market Breakup by Application

5.8 Market Breakup by Region

5.9 Market Forecast

6 SWOT ANALYSIS

6.1 Overview

6.2 Strengths

6.3 Weaknesses

6.4 Opportunities

6.5 Threats

7 VALUE CHAIN ANALYSIS

8 PORTER'S FIVE FORCES ANALYSIS

8.1 Overview

8.2 Bargaining Power of Buyers

8.3 Bargaining Power of Suppliers

8.4 Degree of Competition

8.5 Threat of New Entrants

8.6 Threat of Substitutes

9 MARKET BREAKUP BY TYPE

9.1 Silica

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Polymer

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Carbon

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Others

9.4.1 Market Trends

9.4.2 Market Forecast

10 MARKET BREAKUP BY FORM

10.1 Blanket

10.1.1 Market Trends

10.1.2 Market Forecast

10.2 Particle

10.2.1 Market Trends

10.2.2 Market Forecast

10.3 Panel

- 10.3.1Market Trends
- 10.3.2Market Forecast
- 10.4Monolith
 - 10.4.1Market Trends
 - 10.4.2Market Forecast

11 MARKET BREAKUP BY PROCESSING

- 11.1Virgin
 - 11.1.1Market Trends
 - 11.1.2Market Forecast
- 11.2Composites
 - 11.2.1Market Trends
 - 11.2.2Market Forecast
- 11.3Additives
 - 11.3.1Market Trends
 - 11.3.2Market Forecast

12 MARKET BREAKUP BY APPLICATION

- 12.1Oil and Gas
 - 12.1.1Market Trends
 - 12.1.2Market Forecast
- 12.2Construction
 - 12.2.1Market Trends
 - 12.2.2Market Forecast
- 12.3Transportation
 - 12.3.1Market Trends
 - 12.3.2Market Forecast
- 12.4Electronics
 - 12.4.1Market Trends
 - 12.4.2Market Forecast
- 12.5Others
 - 12.5.1Market Trends
 - 12.5.2Market Forecast

13 MARKET BREAKUP BY REGION

- 13.1North America

- 13.1.1Market Trends
- 13.1.2Market Forecast
- 13.2Europe
 - 13.2.1Market Trends
 - 13.2.2Market Forecast
- 13.3Asia Pacific
 - 13.3.1Market Trends
 - 13.3.2Market Forecast
- 13.4Middle East and Africa
 - 13.4.1Market Trends
 - 13.4.2Market Forecast
- 13.5Latin America
 - 13.5.1Market Trends
 - 13.5.2Market Forecast

14 COMPETITIVE LANDSCAPE

- 14.1Market Structure
- 14.2Key Players
- 14.3Profiles of Key Players
 - 14.3.1Aspen Aerogels, Inc.
 - 14.3.2BASF SE
 - 14.3.3Cabot Corporation
 - 14.3.4The Dow Chemical Company
 - 14.3.5JIOS Aerogel Corporation
 - 14.3.6Svenska Aerogel Holding AB
 - 14.3.7Enersens SAS
 - 14.3.8Active Aerogels
 - 14.3.9Nano Tech Co., Ltd.
 - 14.3.10Guangdong Alison Hi-Tech Co., Ltd.
 - 14.3.11Intelligent Insulation Ltd.
 - 14.3.12Surnano Aerogel Co. Ltd.
 - 14.3.13Taasi Corporation
 - 14.3.14Protective Polymers Ltd
 - 14.3.15Green Earth Aerogel Technology SL

List Of Tables

LIST OF TABLES

Table 1: Global: Aerogel Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Aerogel Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 3: Global: Aerogel Market Forecast: Breakup by Form (in Million US\$), 2023-2028

Table 4: Global: Aerogel Market Forecast: Breakup by Processing (in Million US\$),
2023-2028

Table 5: Global: Aerogel Market Forecast: Breakup by Application (in Million US\$),
2023-2028

Table 6: Global: Aerogel Market Forecast: Breakup by Region (in Million US\$),
2023-2028

Table 7: Global: Aerogel Market: Competitive Structure

Table 8: Global: Aerogel Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Aerogel Market: Major Drivers and Challenges
- Figure 2: Global: Aerogel Market: Sales Value (in Million US\$), 2017-2022
- Figure 3: Global: Aerogel Market: Breakup by Type (in %), 2022
- Figure 4: Global: Aerogel Market: Breakup by Form (in %), 2022
- Figure 5: Global: Aerogel Market: Breakup by Processing (in %), 2022
- Figure 6: Global: Aerogel Market: Breakup by Application (in %), 2022
- Figure 7: Global: Aerogel Market: Breakup by Region (in %), 2022
- Figure 8: Global: Aerogel Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 9: Global: Aerogel Industry: SWOT Analysis
- Figure 10: Global: Aerogel Industry: Value Chain Analysis
- Figure 11: Global: Aerogel Industry: Porter's Five Forces Analysis
- Figure 12: Global: Aerogel (Silica) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 13: Global: Aerogel (Silica) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 14: Global: Aerogel (Polymer) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 15: Global: Aerogel (Polymer) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 16: Global: Aerogel (Carbon) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 17: Global: Aerogel (Carbon) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 18: Global: Aerogel (Other Types) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 19: Global: Aerogel (Other Types) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 20: Global: Aerogel (Blanket) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 21: Global: Aerogel (Blanket) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 22: Global: Aerogel (Particle) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 23: Global: Aerogel (Particle) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 24: Global: Aerogel (Panel) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 25: Global: Aerogel (Panel) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 26: Global: Aerogel (Monolith) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 27: Global: Aerogel (Monolith) Market Forecast: Sales Value (in Million US\$), 2023-2028

2023-2028

Figure 28: Global: Aerogel (Virgin) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Aerogel (Virgin) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Aerogel (Composites) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Aerogel (Composites) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Aerogel (Additives) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Aerogel (Additives) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Aerogel (Oil and Gas) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Global: Aerogel (Oil and Gas) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: Global: Aerogel (Construction) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: Global: Aerogel (Construction) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Global: Aerogel (Transportation) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Global: Aerogel (Transportation) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Global: Aerogel (Electronics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: Global: Aerogel (Electronics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: Global: Aerogel (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: Global: Aerogel (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: North America: Aerogel Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: North America: Aerogel Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Europe: Aerogel Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: Europe: Aerogel Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Asia Pacific: Aerogel Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Asia Pacific: Aerogel Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 50: Middle East and Africa: Aerogel Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Middle East and Africa: Aerogel Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: Latin America: Aerogel Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Latin America: Aerogel Market Forecast: Sales Value (in Million US\$), 2023-2028

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