

Global Durable Polyimide Aerogel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Durable Polyimide Aerogel market size is expected to reach \$ 619 million by 2032, rising at a market growth of 12.6% CAGR during the forecast period (2026-2032).

Durable polyimide aerogel is a high-performance porous material made from polyimide polymers, combining the ultra-low density and thermal insulation of aerogels with the excellent mechanical strength, flexibility, and thermal stability of polyimide; it is widely used in aerospace, electric vehicles, electronics, and energy systems where lightweight and heat resistance are critical. Its supply chain starts upstream with petrochemical-derived monomers such as dianhydrides and diamines produced by chemical companies (e.g., DuPont, Evonik Industries), followed by midstream synthesis where manufacturers polymerize these into polyimide sols, perform gelation, solvent exchange, and advanced drying processes (supercritical or ambient pressure drying) to form aerogel structures, then further reinforce or composite them to enhance durability; downstream, the finished materials are processed into blankets, panels, or molded components and supplied to end users such as aerospace OEMs, EV battery insulation suppliers, and electronics manufacturers, often through specialized distributors or direct OEM partnerships. In 2025, global Durable Polyimide Aerogel output was about 7,000 tons with 10,000 tons of capacity, average prices of USD 30,000–70,000 per ton, and gross margins around 37%.

This report studies the global Durable Polyimide Aerogel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Durable Polyimide Aerogel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and

competition, as well as details the characteristics of Durable Polyimide Aerogel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Durable Polyimide Aerogel total production and demand, 2021-2032, (Tons)

Global Durable Polyimide Aerogel total production value, 2021-2032, (USD Million)

Global Durable Polyimide Aerogel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Durable Polyimide Aerogel consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Durable Polyimide Aerogel domestic production, consumption, key domestic manufacturers and share

Global Durable Polyimide Aerogel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Durable Polyimide Aerogel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Durable Polyimide Aerogel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Durable Polyimide Aerogel market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Aspen Aerogels (USA), Blueshift Materials (USA), Active Aerogels (Portugal), Armacell (Luxembourg), Enersens (France), Svenska Aerogel (Sweden), Guangdong Alison Hi-Tech (China), Zhejiang UGOO Technology (China), IBIH Advanced Materials (China), Ningbo Surnano Aerogel (China), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Durable Polyimide Aerogel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Durable Polyimide Aerogel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Durable Polyimide Aerogel Market, Segmentation by Type:

Flexible Type

Semi-rigid Type

Rigid Type

Global Durable Polyimide Aerogel Market, Segmentation by Density:

5–20 kg/m³

20–80 kg/m³

80–200 kg/m³

>200 kg/m?

Global Durable Polyimide Aerogel Market, Segmentation by Application:

Construction

Petrochemical

Battery Insulation

Aerospace & Defense

Others

Companies Profiled:

Aspen Aerogels (USA)

Blueshift Materials (USA)

Active Aerogels (Portugal)

Armacell (Luxembourg)

Enersens (France)

Svenska Aerogel (Sweden)

Guangdong Alison Hi-Tech (China)

Zhejiang UGOO Technology (China)

IBIH Advanced Materials (China)

Ningbo Surnano Aerogel (China)

Namate New Materials Technology (China)

Key Questions Answered:

1. How big is the global Durable Polyimide Aerogel market?
2. What is the demand of the global Durable Polyimide Aerogel market?
3. What is the year over year growth of the global Durable Polyimide Aerogel market?
4. What is the production and production value of the global Durable Polyimide Aerogel market?
5. Who are the key producers in the global Durable Polyimide Aerogel market?
6. What are the growth factors driving the market demand?

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