

Global High Performance Quartz Fibers and Fabrics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Performance Quartz Fibers and Fabrics market size is expected to reach \$ 124 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

High-performance quartz fibers and fabrics are specialized inorganic materials primarily composed of high-purity silica, produced through processes such as melt-drawing, bundling, twisting, and weaving; they are available in forms including yarns, rovings, cloths, tapes, and felts. These products feature high-temperature resistance, low dielectric properties, thermal shock resistance, corrosion resistance, and high specific strength, making them ideal for applications involving wave transparency, thermal insulation, and composite material reinforcement.

Upstream components primarily include high-purity quartz raw materials, melt-drawing equipment, sizing agents, and textile auxiliaries; downstream applications span aerospace radomes, satellite communications, wave-transparent structures for missiles and aircraft, high-temperature thermal insulation, specialized electronic insulation, and high-performance composites.

The global market for high-performance quartz fibers and fabrics has a unit price of \$145 per kilogram, with annual sales of approximately 520 tons, a global annual production capacity of about 800 tons, and an industry profit margin of 35%.

Future market trends will focus on achieving higher purity, ultra-fine diameters, fewer defects, and consistent performance, with particular emphasis on enhancing dielectric stability under high-frequency and wide-bandwidth conditions, high-temperature resistance, and interfacial bonding between fibers and resins. Sectors such as

aerospace, satellite communications, advanced radar, and high-speed aircraft will continue to expand the use of quartz fiber fabrics in wave-transparent structures, while demand for high-temperature resin-matrix and ceramic-matrix composites is also expected to rise. The industry will accelerate the adoption of technologies such as automated drawing, precision weaving, 3D preform manufacturing, and surface treatment, while leveraging economies of scale to reduce costs. As supply chains mature and product certifications progress, competition will shift from the supply of individual fibers to the collaborative development of fabrics, prepregs, and structural components.

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This report studies the global High Performance Quartz Fibers and Fabrics production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Performance Quartz Fibers and Fabrics 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 High Performance Quartz Fibers and Fabrics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Performance Quartz Fibers and Fabrics total production and demand, 2021-2032, (Tons)

Global High Performance Quartz Fibers and Fabrics total production value, 2021-2032, (USD Million)

Global High Performance Quartz Fibers and Fabrics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Performance Quartz Fibers and Fabrics consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Performance Quartz Fibers and Fabrics domestic production, consumption, key domestic manufacturers and share

Global High Performance Quartz Fibers and Fabrics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Performance Quartz Fibers and Fabrics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Performance Quartz Fibers and Fabrics production by Application,

production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Performance Quartz Fibers and Fabrics 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 Saint-Gobain, JPS Composite Materials, NPO Stekloplastic, Shin-Etsu Chemical, Hubei Feilihua Quartz Glass, Henan Shenjiu Tianhang New Material, Sinoma Science & Technology, Jiangsu Tianniao High Technology, Jushi, Chongqing Polycomp International, 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 High Performance Quartz Fibers and Fabrics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 High Performance Quartz Fibers and Fabrics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Performance Quartz Fibers and Fabrics Market, Segmentation by Type:

Quartz Continuous Filament

Quartz Chopped Fiber

Quartz Fiber Yarn

Quartz Fiber Roving

Quartz Fiber Fabric

Global High Performance Quartz Fibers and Fabrics Market, Segmentation by Fiber Structure:

Monofilament Quartz Fiber

Multifilament Quartz Fiber

Twisted Quartz Yarn

Untwisted Quartz Yarn

Texturized Quartz Yarn

Quartz Fiber Hybrid Yarn

Global High Performance Quartz Fibers and Fabrics Market, Segmentation by Silica Purity:

Standard-Purity Quartz Fiber

High-Purity Quartz Fiber

Ultra-High-Purity Quartz Fiber

Global High Performance Quartz Fibers and Fabrics Market, Segmentation by Application:

Aerospace and Defense

Radomes and Electromagnetic Windows

Satellite and Communication Equipment

Electronic and Electrical Insulation

Advanced Composite Materials

Industrial Filtration

Marine and Transportation

Companies Profiled:

Saint-Gobain

JPS Composite Materials

NPO Stekloplastic

Shin-Etsu Chemical

Hubei Feilihua Quartz Glass

Henan Shenjiu Tianhang New Material

Sinoma Science & Technology

Jiangsu Tianniao High Technology

Jushi

Chongqing Polycomp International

Key Questions Answered:

1. How big is the global High Performance Quartz Fibers and Fabrics market?
2. What is the demand of the global High Performance Quartz Fibers and Fabrics market?
3. What is the year over year growth of the global High Performance Quartz Fibers and Fabrics market?
4. What is the production and production value of the global High Performance Quartz Fibers and Fabrics market?
5. Who are the key producers in the global High Performance Quartz Fibers and Fabrics market?
6. What are the growth factors driving the market demand?

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