

Global Quartz Fiber Electronic Cloth Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Quartz Fiber Electronic Cloth market size is expected to reach \$ 847 million by 2032, rising at a market growth of 19.8% CAGR during the forecast period (2026-2032).

The upstream of electronic-grade glass fiber cloth is mainly mineral raw materials such as pyrophyllite, while the upstream of quartz fiber cloth is mainly quartz sand, and the upstream is high-purity quartz ore. The downstream application process of the two is the same. They are woven into cloth and then made into copper-clad laminates, which are then used for printed circuit boards and finally applied to the terminal industry. The core difference lies in the upstream raw material link. The key technical parameters of electronic cloth are mainly dielectric constant and dielectric loss. The dielectric constant characterizes the ability of dielectric materials to store charge in an electric field. The lower its value, the faster the signal transmission speed and the smaller the delay, which is suitable for high-speed signal transmission. Dielectric loss reflects the ability of dielectric materials to convert electrical energy into thermal energy. The smaller its value, the smaller the signal transmission loss. Copper-clad laminates are composed of electronic cloth, resin matrix and copper foil. Their dielectric properties are determined by the weighted average of the dielectric constant and dielectric loss of the electronic cloth and resin by volume.

Quartz Fiber Electronic Cloth is a high-performance inorganic textile manufactured from ultra-high-purity quartz fiber using precision melt drawing and weaving processes. It exhibits exceptional high-temperature resistance, superior electrical insulation, and low dielectric constant characteristics compared with conventional glass fiber fabrics. These properties make it indispensable in applications requiring dimensional stability and electrical fidelity under extreme conditions, including high-frequency and high-speed

electronic substrates, semiconductor equipment, aerospace systems, and advanced industrial insulation. The material is supplied as rolls or bespoke panels and serves critical roles in electronic-grade composites, microwave systems, sensors, and high-temperature structural components.

Production Capacity:

2025: Feilihua Q-fiber cloth production capacity 50,000 meters/month; Sinoma Science & Technology Q-fiber cloth production capacity 15,000 meters/month.

2026: Feilihua Q-fiber cloth production capacity target 30 million square meters (approximately 3 million meters), certified by NVIDIA.

In 2025, the global Quartz Fiber Electronic Cloth production reached 6.66 million meters, with an average selling price of \$15.49-\$38.02 per meter and a gross margin of approximately 45%.

Currently, chip manufacturers have carried out research on 224G high-speed interconnect technology. The 224G motherboard is mainly based on high-speed PCB, which has extremely high requirements for the dielectric loss of PCB materials. Data centers are one of the main application areas of 224G, involving servers, network routers, storage and other equipment, which require a large number of high-speed PCBs. In terms of performance comparison, under 10 GHz conditions, the dielectric constant of quartz fiber can be reduced to below 4, and the dielectric loss limit is $2/10000$, while the dielectric loss threshold of traditional glass fiber is $1/1000$. In the copper clad laminate grade standard (such as Panasonic's M5M9), the M9 standard requires a dielectric loss of less than $9/10000$, and it is necessary to break through the bottleneck of $1/1000$. Traditional glass fiber is limited, and the quartz fiber solution has become a clear direction.

The quartz fiber electronic fabric industry is on a rapid growth trajectory, with technological innovation and application expansion continuously driving market development. Fields such as 5G communication, AI, and high-performance computing are placing significantly higher demands on the dielectric properties of high-frequency, high-speed substrates. Quartz fiber electronic fabrics, with their extremely low dielectric constant and excellent high-temperature stability, are becoming an important material to replace traditional glass fibers and organic substrates. Strong demand for high-reliability materials in aerospace and defense electronic systems, as well as the standardized requirements for ultra-high purity materials in semiconductor manufacturing equipment,

are major drivers of industry demand growth. Meanwhile, continuous technological breakthroughs by major global manufacturers in high-purity quartz fiber preparation technology, weaving precision, and surface treatment processes will further broaden downstream application boundaries and increase market penetration.

Despite the broad market prospects, the industry supply chain still faces significant challenges. High-purity quartz raw material resources are concentrated, and global supply is highly dependent on specific mining areas, leading to high risks associated with raw material price fluctuations. Furthermore, large investments in production equipment, high technological barriers, and difficult equipment maintenance all limit the rapid expansion of new production capacity. International trade barriers, intellectual property protection, and regulatory standards (such as REACH and IPC/MIL standards) have increased the uncertainty of cross-border market expansion. Prices remain high, and cost-sensitive application areas such as consumer electronics and low-to-mid-end industrial markets still face the threat of substitution, limiting the rapid expansion of the industry's overall scale.

Downstream demand is evolving towards high-end and customized products. With global semiconductor manufacturing capacity concentrating in the Asia-Pacific region, especially with the expansion of wafer fabs in China, Japan, and South Korea, the requirements for extremely low metal impurities and repeatable batch quality in electronic-grade quartz fiber cloth are becoming increasingly stringent. Furthermore, future radar systems, high-temperature gas turbine sensors, and next-generation satellite communication equipment will place higher standards on the heat resistance, radiation resistance, and electromagnetic transparency of materials, further increasing the demand for quartz fiber electronic cloth in high-end equipment manufacturing. Overall, downstream industry demand is trending towards more specialized, higher-value-added niche markets.

This report studies the global Quartz Fiber Electronic Cloth production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Quartz Fiber Electronic Cloth 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 Quartz Fiber Electronic Cloth that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Quartz Fiber Electronic Cloth total production and demand, 2021-2032, (K Meter)

Global Quartz Fiber Electronic Cloth total production value, 2021-2032, (USD Million)

Global Quartz Fiber Electronic Cloth production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global Quartz Fiber Electronic Cloth consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Quartz Fiber Electronic Cloth domestic production, consumption, key domestic manufacturers and share

Global Quartz Fiber Electronic Cloth production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global Quartz Fiber Electronic Cloth production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global Quartz Fiber Electronic Cloth production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Quartz Fiber Electronic Cloth 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 Shin-Etsu Chemical Co., Ltd.?JP?, Saint-Gobain?FR?, Nittobo?JP?, Xcellent Composites?US?, Shaanxi Light Optoelectronics Material Co., Ltd.?CN?, Sinoma Science and Technology Co., Ltd.?CN?, Grace Fabric Technology Co., Ltd.?CN?, Hubei Feilihua Quartz Glass Co., Ltd.?CN?, Pamica Technology Corporation?CN?, Gansu Tianhong New Materials Co., Ltd.?CN?, 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 Quartz Fiber Electronic Cloth market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) 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 Quartz Fiber Electronic Cloth Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quartz Fiber Electronic Cloth Market, Segmentation by Type:

Fiber Diameter 10 μ m-28 μ m

Fiber Diameter Less Than 10 μ m

Global Quartz Fiber Electronic Cloth Market, Segmentation by Thickness:

Ultra-Thin Quartz Fiber Cloth?? 0.1 mm?

Standard Quartz Fiber Cloth?0.1?0.3 mm?

Others

Global Quartz Fiber Electronic Cloth Market, Segmentation by Dielectric Loss:

Ultra-Ultra Low?Df ? 0.0009?

Others?Df > 0.0009?

Global Quartz Fiber Electronic Cloth Market, Segmentation by Application:

Data Center High-Speed ??PCBs

AI Server

5G/6G Base Station RF Modules

Semiconductor Packaging Substrate

Other

Companies Profiled:

Shin-Etsu Chemical Co., Ltd.?JP?

Saint-Gobain?FR?

Nittobo?JP?

Xcellent Composites?US?

Shaanxi Lighte Optoelectronics Material Co., Ltd.?CN?

Sinoma Science and Technology Co., Ltd.?CN?

Grace Fabric Technology Co., Ltd.?CN?

Hubei Feilihua Quartz Glass Co., Ltd.?CN?

Pamica Technology Corporation?CN?

Gansu Tianhong New Materials Co., Ltd.?CN?

Yaoshitech?CN?

Henan Guangyuan New Material Co., Ltd.?CN?

Key Questions Answered:

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

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