

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

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Abstracts

The global Quartz Electronic Cloth market size is expected to reach \$ 859 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032).

Quartz electronic cloth is a high-performance electronic-grade textile manufactured from high-purity continuous quartz glass fibers (typically with an SiO₂ content of 99.9%) through processes such as fiber drawing, sizing, warping, weaving, and heat treatment. It is an advanced electronic material characterized by an ultra-low dielectric constant, ultra-low dielectric loss, high-temperature resistance, high dimensional stability, a low coefficient of thermal expansion, and excellent electrical insulation properties.

The industry chain comprises three main segments: upstream high-purity quartz raw materials and equipment, midstream quartz electronic fabric manufacturing, and downstream high-end electronic materials and end-use applications. The upstream segment primarily involves key raw materials and production equipment such as high-purity quartz sand, high-purity quartz glass, continuous quartz fibers, sizing agents, surface treatment agents, platinum-rhodium bushings, fiber drawing furnaces, warping machines, electronic looms, heat treatment equipment, and testing instruments with the technologies for high-purity quartz fiber preparation, ultra-fine fiber drawing, and surface treatment serving as the core technical foundation. The midstream segment produces electronic-grade quartz fabric through processes including quartz glass melting, continuous fiber drawing, sizing, plying, warping, weaving, heat treatment, and surface modification; key quality controls focus on fiber purity, fabric thickness uniformity, dielectric properties, dimensional stability, and cleanliness to meet the requirements for high-speed electronic materials. The downstream segment primarily utilizes the fabric as a reinforcing material for high-end copper-clad laminates (CCL), printed circuit boards (PCB), IC packaging substrates, high-speed communication substrates, and

microwave-transparent materials; it is compounded with low-dielectric resin systems such as PTFE, PPO, MPI, and modified epoxy resins and ultimately finds widespread application in high-frequency/high-speed PCB manufacturing, chip packaging substrates, AI servers, and the aerospace industry.

In 2025, global sales volume for quartz electronic cloth reached 7.282 million meters, with a production capacity of approximately 10.4 million meters, an average selling price of \$35.7 per meter, and an average gross profit margin of 45%-55%.

The global market for electronic-grade quartz fabric is still in the early stages of industrialization; characterized by high technical barriers and a limited number of suppliers, the industry exhibits a highly concentrated competitive landscape. Production capacity is primarily concentrated in China, while a select few companies in Europe, the United States, and Japan operate in the high-performance quartz fiber and specialty fabric sectors. China has gradually emerged as a global hub for the R&D and industrialization of electronic-grade quartz fabric, leveraging advantages in high-purity quartz materials, continuous quartz fiber production, and the electronic materials supply chain; representative companies include Hubei Feilihua and Henan Shenjiu Tianhang. Meanwhile, companies in Europe and the US relying on long-standing expertise in quartz fiber and high-performance composite materials maintain a competitive edge in the aerospace and defense sectors and are progressively expanding into the market for high-frequency, high-speed electronic materials. Overall, few enterprises are currently capable of stable mass production of electronic-grade quartz fabric. Industry competition centers on core technical capabilities such as high-purity quartz fiber production, ultra-fine weaving processes, control of dielectric properties, and the ability to secure customer certification. As the markets for AI and high-speed communications expand, industry concentration is expected to remain high.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Quartz 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, Nittobo, Saint-Gobain Vetrotex, Feilihua, Taishan Fiberglass, Honghe Technology, Light-Tech Optoelectronics, Ping'an Electrical Materials, Guangyuan New Materials, CPIC (Chongqing Polycomp International Corp.), 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 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 Electronic Cloth Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Quartz Electronic Cloth Market, Segmentation by Type:

Thickness $\leq 28 \mu\text{m}$

Thickness $28\text{--}100 \mu\text{m}$

Thickness $\geq 100 \mu\text{m}$

Global Quartz Electronic Cloth Market, Segmentation by Weave Structure:

Plain Weave

Twill Weave

Others

Global Quartz Electronic Cloth Market, Segmentation by Dielectric Loss:

$\text{Df} \leq 0.0009$

$\text{Df} \geq 0.0009$

Global Quartz Electronic Cloth Market, Segmentation by Application:

High-Frequency and High-Speed ??PCB Manufacturing

IC Packaging Substrates

AI Servers

Aerospace

Others

Companies Profiled:

Shin-Etsu Chemical

Nittobo

Saint-Gobain Vetrotex

Feilihua

Taishan Fiberglass

Honghe Technology

Light-Tech Optoelectronics

Ping'an Electrical Materials

Guangyuan New Materials

CPIC (Chongqing Polycomp International Corp.)

Shenjiu Tianhang

Key Questions Answered:

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

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