

Global D450 Electronic Glass Fiber Yarn Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global D450 Electronic Glass Fiber Yarn market size is expected to reach \$ 793 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

D450 electronic glass fiber yarn is an ultra-fine electronic-grade glass yarn produced from continuous E-glass (alkali-free glass) filaments; it features a filament diameter of approximately 5.0?5.5 ?m and a linear density of about 11 tex, placing it within the D-series ultra-fine electronic yarn category. Typically manufactured through sizing and twisting processes, D450 electronic yarn exhibits excellent electrical insulation, high tensile strength, low dielectric constant, high-temperature resistance, low moisture absorption, and dimensional stability.

The industry chain comprises three main segments: upstream raw materials, midstream electronic yarn manufacturing, and downstream electronic material applications. Upstream inputs include glass batch materials?such as pyrophyllite, kaolin, quartz sand, limestone, boric acid, and alumina?as well as critical materials and equipment like platinum-rhodium alloy bushings, fiber-drawing machinery, sizing agents, twisting equipment, and testing instruments; ultra-fine fiber-drawing technology, sizing formulations, and bushing manufacturing processes are fundamental factors influencing product quality. Midstream production involves processes such as glass melting, fiber drawing via platinum-rhodium bushings, online sizing, drying, plying, twisting, winding, and quality inspection. Core competitiveness is defined by key metrics including filament diameter consistency, linear density control, fuzziness (hairiness) rate, moisture content, and dielectric properties. Downstream applications primarily involve weaving ultra-thin electronic glass fiber fabrics (such as the 1080 style), which are further processed into copper-clad laminates (CCL), printed circuit boards (PCB), IC packaging

substrates, high-density interconnect (HDI) boards, and high-frequency/high-speed communication substrates. These products are ultimately widely used in AI servers, data centers, 5G communication equipment, smartphones, automotive electronics, consumer electronics, industrial controls, and advanced semiconductor packaging.

In 2025, global sales volume for D450 electronic glass fiber yarn reached 69,000 tons, with a production capacity of approximately 98,000 tons; the average selling price was \$7,285 per ton, and the average gross profit margin ranged from 25% to 35%.

In recent years, D450 electronic glass fiber yarn has been evolving toward finer specifications, lower dielectric loss, superior dimensional stability, and better weaving performance. The industry is focusing its upgrades on ultra-fine filament drawing processes, low-dielectric glass formulations, high-performance sizing systems, intelligent in-line inspection, and automated winding technologies, while gradually expanding into higher-end products such as the D225 and DE series to meet the demands of AI servers, high-speed communications, and advanced packaging materials. Meanwhile, as nations continue to drive the development of semiconductors, high-end electronics manufacturing, and new information infrastructure?with China actively promoting the autonomy and controllability of its electronic information supply chain, and Japan, South Korea, Europe, and the US increasing R&D investment in advanced packaging, high-performance copper-clad laminates, and key materials?the market for high-end electronic yarn has gained long-term policy support. This trend is further propelling the global supply chain toward high performance, low loss, and localization.

This report studies the global D450 Electronic Glass Fiber Yarn production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for D450 Electronic Glass Fiber Yarn 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 D450 Electronic Glass Fiber Yarn that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global D450 Electronic Glass Fiber Yarn total production and demand, 2021-2032, (Tons)

Global D450 Electronic Glass Fiber Yarn total production value, 2021-2032, (USD

Million)

Global D450 Electronic Glass Fiber Yarn production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global D450 Electronic Glass Fiber Yarn consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: D450 Electronic Glass Fiber Yarn domestic production, consumption, key domestic manufacturers and share

Global D450 Electronic Glass Fiber Yarn production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global D450 Electronic Glass Fiber Yarn production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global D450 Electronic Glass Fiber Yarn production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global D450 Electronic Glass Fiber Yarn 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 Jushi Group, Taishan Fiberglass, Guangyuan New Materials, Taiwan PCC, Kingboard Chemical, Chongqing Polycomp International Corp. (CPIC), Taiwan Glass Group, Nippon Electric Glass, Saint-Gobain Vetrotex, Fulltech, 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 D450 Electronic Glass Fiber Yarn 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 D450 Electronic Glass Fiber Yarn Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global D450 Electronic Glass Fiber Yarn Market, Segmentation by Type:

Single Yarn

Plied Yarn

Global D450 Electronic Glass Fiber Yarn Market, Segmentation by Sizing Agents:

Starch-Based

Paraffin-Based

Global D450 Electronic Glass Fiber Yarn Market, Segmentation by Linear Density:

11.1?0.4 tex

11.2 tex

Others

Global D450 Electronic Glass Fiber Yarn Market, Segmentation by Application:

AI Servers

Automotive Electronics

Consumer Electronics

Communications

Others

Companies Profiled:

Jushi Group

Taishan Fiberglass

Guangyuan New Materials

Taiwan PCC

Kingboard Chemical

Chongqing Polycomp International Corp. (CPIC)

Taiwan Glass Group

Nippon Electric Glass

Saint-Gobain Vetrotex

Fulltech

Nittobo

Asahi Kasei

AGY

Key Questions Answered:

1. How big is the global D450 Electronic Glass Fiber Yarn market?
2. What is the demand of the global D450 Electronic Glass Fiber Yarn market?
3. What is the year over year growth of the global D450 Electronic Glass Fiber Yarn market?
4. What is the production and production value of the global D450 Electronic Glass Fiber Yarn market?
5. Who are the key producers in the global D450 Electronic Glass Fiber Yarn market?
6. What are the growth factors driving the market demand?

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