

Global NER Low-Dielectric Glass Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global NER Low-Dielectric Glass Fiber market size is expected to reach \$ 257 million by 2032, rising at a market growth of 20.8% CAGR during the forecast period (2026-2032).

In 2025, global NER Low-Dielectric Glass Fiber production reached approximately 11.07 million meters, with an average global market price of around US\$6 per meter.

NER Low-Dielectric Glass Fiber is a higher-performance electronic-grade glass fiber material positioned above conventional NE-grade low-Dk glass fiber. It is mainly designed for 800G switches, AI servers, high-speed backplanes, high-frequency PCBs, advanced copper-clad laminates, and selected advanced package substrates. Through further optimization of glass composition, dielectric loss, fiber uniformity, and fabric structure, NER-grade glass fiber helps reduce insertion loss, transmission delay, crosstalk, and signal-integrity degradation in high-speed PCB and CCL systems. Compared with E-glass, NER significantly reduces dielectric constant and dissipation factor; compared with NE or Low-Dk1 glass fiber, NER or Low-Dk2 offers lower signal loss and is better suited for 112G/224G SerDes, 800G networking equipment, and high-end AI server platforms.

The upstream supply chain of NER low-dielectric glass fiber includes high-purity silica sand, quartz sand, boric acid, borates, alumina, limestone, dolomite, feldspar, fluorine-containing or low-loss formulation additives, sizing agents, coupling agents, glass-cloth surface-treatment agents, platinum-rhodium bushings, fiber-drawing furnaces, warping machines, and high-precision electronic glass-cloth weaving equipment. Representative upstream suppliers include Sibelco, The Quartz Corp, Covia, Eti Maden, Rio Tinto Borates, Almatris, Momentive, Shin-Etsu Chemical, and Toyota Tsusho. Midstream

producers include Nittobo, Nippon Electric Glass, Asahi Kasei, Taiwan Glass, Fulltech Fiber Glass, Taishan Fiberglass. Nittobo has strong first-mover advantages in the NE/NER system, while NEG's D2 Fiber is also a representative second-generation low-dielectric glass fiber. Downstream applications include high-speed CCLs, PCBs, AI server motherboards, GPU/ASIC boards, 800G switches, high-speed routers, optical communication equipment, data-center infrastructure, and high-end package substrates. Representative downstream companies include Panasonic Industry, Rogers, Isola, Elite Material, EMC, ITEQ, Shengyi Technology, Nan Ya New Material, NVIDIA, AMD, Broadcom, Cisco, Arista, Dell, HPE, Supermicro, Quanta, Foxconn, Google, Microsoft, Amazon, and Meta.

The NER low-dielectric glass fiber market is currently in a high-end adoption phase with relatively tight supply, mainly driven by AI servers, high-speed switches, data centers, and advanced CCL/PCB upgrades. Compared with NE-grade materials, NER glass fiber is better suited for higher-speed, lower-loss, and higher-layer-count boards, making it increasingly important for 800G switches, high-speed backplanes, and next-generation AI server platforms. Key trends include lower dissipation factor, thinner glass cloth, more uniform fiber spreading, stronger compatibility with low-Dk resin systems, and better dimensional stability. Main challenges include difficult formulation and fiber-drawing processes, long capacity expansion cycles, strict customer qualification, high supplier concentration, and cost pressure on downstream CCL and PCB manufacturers caused by high-end material price increases. Overall, NER low-dielectric glass fiber is a fast-growing, high-barrier, and high-value upgrade product within the low-dielectric glass fiber market, with strong long-term potential from 800G/1.6T networking equipment and AI computing platforms.

This report studies the global NER Low-Dielectric Glass Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for NER Low-Dielectric Glass Fiber 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 NER Low-Dielectric Glass Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global NER Low-Dielectric Glass Fiber total production and demand, 2021-2032, (K Meter)

Global NER Low-Dielectric Glass Fiber total production value, 2021-2032, (USD Million)

Global NER Low-Dielectric Glass Fiber Supply, Demand and Key Producers, 2026-2032

Global NER Low-Dielectric Glass Fiber production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global NER Low-Dielectric Glass Fiber consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: NER Low-Dielectric Glass Fiber domestic production, consumption, key domestic manufacturers and share

Global NER Low-Dielectric Glass Fiber production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global NER Low-Dielectric Glass Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global NER Low-Dielectric Glass Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global NER Low-Dielectric Glass Fiber 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 Nittobo, Asahi Kasei, AGC, Nippon Electric Glass, TAIWANGLASS, Fulltech Fiber Glass, Sinoma, Grace Fabric Technology, Taishan Fiberglass, 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 NER Low-Dielectric Glass Fiber 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 NER Low-Dielectric Glass Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NER Low-Dielectric Glass Fiber Market, Segmentation by Type:

Fiberglass Yarn

Fiberglass Cloth

Global NER Low-Dielectric Glass Fiber Market, Segmentation by Dielectric Constant:

6.0-7.0

4.5-4.9

4.0-4.5

3.8-4.2

3.5-3.8

Global NER Low-Dielectric Glass Fiber Market, Segmentation by Filament Diameter:

7-9 ?m

5-7 ?m

4-5 ?m

Others

Global NER Low-Dielectric Glass Fiber Market, Segmentation by Application:

Servers

Data Centers

Switches

Communication Equipment

High-speed Router

Others

Companies Profiled:

Nittobo

Asahi Kasei

AGC

Nippon Electric Glass

TAIWANGLASS

Fulltech Fiber Glass

Sinoma

Grace Fabric Technology

Taishan Fiberglass

Key Questions Answered:

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

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