

Global NER Low-Dielectric Glass Fiber Market Growth 2026-2032

<https://marketpublishers.com/r/G7FE00576C81EN.html>

Date: July 2026

Pages: 98

Price: US\$ 3,660.00 (Single User License)

ID: G7FE00576C81EN

Abstracts

The global NER Low-Dielectric Glass Fiber market size is predicted to grow from US\$ 64.95 million in 2025 to US\$ 261 million in 2032; it is expected to grow at a CAGR of 22.1% from 2026 to 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, Almatiss, 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.

LP Information, Inc. (LPI) ' newest research report, the "NER Low-Dielectric Glass Fiber Industry Forecast" looks at past sales and reviews total world NER Low-Dielectric Glass Fiber sales in 2025, providing a comprehensive analysis by region and market sector of projected NER Low-Dielectric Glass Fiber sales for 2026 through 2032. With NER Low-Dielectric Glass Fiber sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world NER Low-Dielectric Glass Fiber industry.

This Insight Report provides a comprehensive analysis of the global NER Low-Dielectric Glass Fiber landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on NER Low-Dielectric Glass Fiber portfolios and capabilities, market entry strategies,

market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global NER Low-Dielectric Glass Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NER Low-Dielectric Glass Fiber and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global NER Low-Dielectric Glass Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of NER Low-Dielectric Glass Fiber market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Fiberglass Yarn

Fiberglass Cloth

Segmentation by Dielectric Constant:

6.0-7.0

4.5-4.9

4.0-4.5

3.8-4.2

3.5-3.8

Segmentation by Filament Diameter:

7-9 μ m

5-7 ?m

4-5 ?m

Others

Segmentation by Application:

Servers

Data Centers

Switches

Communication Equipment

High-speed Router

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Nittobo

Asahi Kasei

AGC

Nippon Electric Glass

TAIWANGLASS

Fulltech Fiber Glass

Sinoma

Grace Fabric Technology

Taishan Fiberglass

Key Questions Addressed in this Report

What is the 10-year outlook for the global NER Low-Dielectric Glass Fiber market?

What factors are driving NER Low-Dielectric Glass Fiber market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do NER Low-Dielectric Glass Fiber market opportunities vary by end market size?

How does NER Low-Dielectric Glass Fiber break out by Type, by Application?

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