

Global NER Low-Dielectric Glass Fiber Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global NER Low-Dielectric Glass Fiber market size was valued at US\$ 68.31 million in 2025 and is forecast to a readjusted size of US\$ 257 million by 2032 with a CAGR of 20.8% during review period.

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.

This report is a detailed and comprehensive analysis for global NER Low-Dielectric Glass Fiber market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global NER Low-Dielectric Glass Fiber market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global NER Low-Dielectric Glass Fiber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global NER Low-Dielectric Glass Fiber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global NER Low-Dielectric Glass Fiber market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (US\$/Meter), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for NER Low-Dielectric Glass Fiber

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global NER Low-Dielectric Glass Fiber market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

NER Low-Dielectric Glass Fiber market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche

markets.

Market segment by Type

Fiberglass Yarn

Fiberglass Cloth

Market segment by Dielectric Constant

6.0-7.0

4.5-4.9

4.0-4.5

3.8-4.2

3.5-3.8

Market segment by Filament Diameter

7-9 ?m

5-7 ?m

4-5 ?m

Others

Market segment by Application

Servers

Data Centers

Switches

Communication Equipment

High-speed Router

Others

Major players covered

Nittobo

Asahi Kasei

AGC

Nippon Electric Glass

TAIWANGLASS

Fulltech Fiber Glass

Sinoma

Grace Fabric Technology

Taishan Fiberglass

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe NER Low-Dielectric Glass Fiber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of NER Low-Dielectric Glass Fiber, with price, sales quantity, revenue, and global market share of NER Low-Dielectric Glass Fiber from 2021 to 2026.

Chapter 3, the NER Low-Dielectric Glass Fiber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the NER Low-Dielectric Glass Fiber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and NER Low-Dielectric Glass Fiber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of NER Low-Dielectric Glass Fiber.

Chapter 14 and 15, to describe NER Low-Dielectric Glass Fiber sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global NER Low-Dielectric Glass Fiber Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Fiberglass Yarn

1.3.3 Fiberglass Cloth

1.4 Market Analysis by Dielectric Constant

1.4.1 Overview: Global NER Low-Dielectric Glass Fiber Consumption Value by Dielectric Constant: 2021 Versus 2025 Versus 2032

1.4.2 6.0-7.0

1.4.3 4.5-4.9

1.4.4 4.0-4.5

1.4.5 3.8-4.2

1.4.6 3.5-3.8

1.5 Market Analysis by Filament Diameter

1.5.1 Overview: Global NER Low-Dielectric Glass Fiber Consumption Value by Filament Diameter: 2021 Versus 2025 Versus 2032

1.5.2 7-9 ?m

1.5.3 5-7 ?m

1.5.4 4-5 ?m

1.5.5 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global NER Low-Dielectric Glass Fiber Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Servers

1.6.3 Data Centers

1.6.4 Switches

1.6.5 Communication Equipment

1.6.6 High-speed Router

1.6.7 Others

1.7 Global NER Low-Dielectric Glass Fiber Market Size & Forecast

1.7.1 Global NER Low-Dielectric Glass Fiber Consumption Value (2021 & 2025 & 2032)

1.7.2 Global NER Low-Dielectric Glass Fiber Sales Quantity (2021-2032)

1.7.3 Global NER Low-Dielectric Glass Fiber Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Nittobo

2.1.1 Nittobo Details

2.1.2 Nittobo Major Business

2.1.3 Nittobo NER Low-Dielectric Glass Fiber Product and Services

2.1.4 Nittobo NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Nittobo Recent Developments/Updates

2.2 Asahi Kasei

2.2.1 Asahi Kasei Details

2.2.2 Asahi Kasei Major Business

2.2.3 Asahi Kasei NER Low-Dielectric Glass Fiber Product and Services

2.2.4 Asahi Kasei NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Asahi Kasei Recent Developments/Updates

2.3 AGC

2.3.1 AGC Details

2.3.2 AGC Major Business

2.3.3 AGC NER Low-Dielectric Glass Fiber Product and Services

2.3.4 AGC NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 AGC Recent Developments/Updates

2.4 Nippon Electric Glass

2.4.1 Nippon Electric Glass Details

2.4.2 Nippon Electric Glass Major Business

2.4.3 Nippon Electric Glass NER Low-Dielectric Glass Fiber Product and Services

2.4.4 Nippon Electric Glass NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Nippon Electric Glass Recent Developments/Updates

2.5 TAIWANGLASS

2.5.1 TAIWANGLASS Details

2.5.2 TAIWANGLASS Major Business

2.5.3 TAIWANGLASS NER Low-Dielectric Glass Fiber Product and Services

2.5.4 TAIWANGLASS NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 TAIWANGLASS Recent Developments/Updates

2.6 Fulltech Fiber Glass

2.6.1 Fulltech Fiber Glass Details

2.6.2 Fulltech Fiber Glass Major Business

2.6.3 Fulltech Fiber Glass NER Low-Dielectric Glass Fiber Product and Services

2.6.4 Fulltech Fiber Glass NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Fulltech Fiber Glass Recent Developments/Updates

2.7 Sinoma

2.7.1 Sinoma Details

2.7.2 Sinoma Major Business

2.7.3 Sinoma NER Low-Dielectric Glass Fiber Product and Services

2.7.4 Sinoma NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Sinoma Recent Developments/Updates

2.8 Grace Fabric Technology

2.8.1 Grace Fabric Technology Details

2.8.2 Grace Fabric Technology Major Business

2.8.3 Grace Fabric Technology NER Low-Dielectric Glass Fiber Product and Services

2.8.4 Grace Fabric Technology NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Grace Fabric Technology Recent Developments/Updates

2.9 Taishan Fiberglass

2.9.1 Taishan Fiberglass Details

2.9.2 Taishan Fiberglass Major Business

2.9.3 Taishan Fiberglass NER Low-Dielectric Glass Fiber Product and Services

2.9.4 Taishan Fiberglass NER Low-Dielectric Glass Fiber Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Taishan Fiberglass Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: NER LOW-DIELECTRIC GLASS FIBER BY MANUFACTURER

3.1 Global NER Low-Dielectric Glass Fiber Sales Quantity by Manufacturer (2021-2026)

3.2 Global NER Low-Dielectric Glass Fiber Revenue by Manufacturer (2021-2026)

3.3 Global NER Low-Dielectric Glass Fiber Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of NER Low-Dielectric Glass Fiber by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 NER Low-Dielectric Glass Fiber Manufacturer Market Share in 2025

- 3.4.3 Top 6 NER Low-Dielectric Glass Fiber Manufacturer Market Share in 2025
- 3.5 NER Low-Dielectric Glass Fiber Market: Overall Company Footprint Analysis
 - 3.5.1 NER Low-Dielectric Glass Fiber Market: Region Footprint
 - 3.5.2 NER Low-Dielectric Glass Fiber Market: Company Product Type Footprint
 - 3.5.3 NER Low-Dielectric Glass Fiber Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global NER Low-Dielectric Glass Fiber Market Size by Region
 - 4.1.1 Global NER Low-Dielectric Glass Fiber Sales Quantity by Region (2021-2032)
 - 4.1.2 Global NER Low-Dielectric Glass Fiber Consumption Value by Region (2021-2032)
 - 4.1.3 Global NER Low-Dielectric Glass Fiber Average Price by Region (2021-2032)
- 4.2 North America NER Low-Dielectric Glass Fiber Consumption Value (2021-2032)
- 4.3 Europe NER Low-Dielectric Glass Fiber Consumption Value (2021-2032)
- 4.4 Asia-Pacific NER Low-Dielectric Glass Fiber Consumption Value (2021-2032)
- 4.5 South America NER Low-Dielectric Glass Fiber Consumption Value (2021-2032)
- 4.6 Middle East & Africa NER Low-Dielectric Glass Fiber Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2032)
- 5.2 Global NER Low-Dielectric Glass Fiber Consumption Value by Type (2021-2032)
- 5.3 Global NER Low-Dielectric Glass Fiber Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global NER Low-Dielectric Glass Fiber Sales Quantity by Application (2021-2032)
- 6.2 Global NER Low-Dielectric Glass Fiber Consumption Value by Application (2021-2032)
- 6.3 Global NER Low-Dielectric Glass Fiber Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2032)
- 7.2 North America NER Low-Dielectric Glass Fiber Sales Quantity by Application

(2021-2032)

7.3 North America NER Low-Dielectric Glass Fiber Market Size by Country

7.3.1 North America NER Low-Dielectric Glass Fiber Sales Quantity by Country

(2021-2032)

7.3.2 North America NER Low-Dielectric Glass Fiber Consumption Value by Country

(2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2032)

8.2 Europe NER Low-Dielectric Glass Fiber Sales Quantity by Application (2021-2032)

8.3 Europe NER Low-Dielectric Glass Fiber Market Size by Country

8.3.1 Europe NER Low-Dielectric Glass Fiber Sales Quantity by Country (2021-2032)

8.3.2 Europe NER Low-Dielectric Glass Fiber Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Application

(2021-2032)

9.3 Asia-Pacific NER Low-Dielectric Glass Fiber Market Size by Region

9.3.1 Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific NER Low-Dielectric Glass Fiber Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2032)

10.2 South America NER Low-Dielectric Glass Fiber Sales Quantity by Application (2021-2032)

10.3 South America NER Low-Dielectric Glass Fiber Market Size by Country

10.3.1 South America NER Low-Dielectric Glass Fiber Sales Quantity by Country (2021-2032)

10.3.2 South America NER Low-Dielectric Glass Fiber Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa NER Low-Dielectric Glass Fiber Market Size by Country

11.3.1 Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa NER Low-Dielectric Glass Fiber Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 NER Low-Dielectric Glass Fiber Market Drivers

12.2 NER Low-Dielectric Glass Fiber Market Restraints

12.3 NER Low-Dielectric Glass Fiber Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of NER Low-Dielectric Glass Fiber and Key Manufacturers

13.2 Manufacturing Costs Percentage of NER Low-Dielectric Glass Fiber

13.3 NER Low-Dielectric Glass Fiber Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 NER Low-Dielectric Glass Fiber Typical Distributors

14.3 NER Low-Dielectric Glass Fiber Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global NER Low-Dielectric Glass Fiber Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global NER Low-Dielectric Glass Fiber Consumption Value by Dielectric Constant, (USD Million), 2021 & 2025 & 2032

Table 3. Global NER Low-Dielectric Glass Fiber Consumption Value by Filament Diameter, (USD Million), 2021 & 2025 & 2032

Table 4. Global NER Low-Dielectric Glass Fiber Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Nittobo Basic Information, Manufacturing Base and Competitors

Table 6. Nittobo Major Business

Table 7. Nittobo NER Low-Dielectric Glass Fiber Product and Services

Table 8. Nittobo NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Nittobo Recent Developments/Updates

Table 10. Asahi Kasei Basic Information, Manufacturing Base and Competitors

Table 11. Asahi Kasei Major Business

Table 12. Asahi Kasei NER Low-Dielectric Glass Fiber Product and Services

Table 13. Asahi Kasei NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Asahi Kasei Recent Developments/Updates

Table 15. AGC Basic Information, Manufacturing Base and Competitors

Table 16. AGC Major Business

Table 17. AGC NER Low-Dielectric Glass Fiber Product and Services

Table 18. AGC NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. AGC Recent Developments/Updates

Table 20. Nippon Electric Glass Basic Information, Manufacturing Base and Competitors

Table 21. Nippon Electric Glass Major Business

Table 22. Nippon Electric Glass NER Low-Dielectric Glass Fiber Product and Services

Table 23. Nippon Electric Glass NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market

Share (2021-2026)

Table 24. Nippon Electric Glass Recent Developments/Updates

Table 25. TAIWANGLASS Basic Information, Manufacturing Base and Competitors

Table 26. TAIWANGLASS Major Business

Table 27. TAIWANGLASS NER Low-Dielectric Glass Fiber Product and Services

Table 28. TAIWANGLASS NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. TAIWANGLASS Recent Developments/Updates

Table 30. Fulltech Fiber Glass Basic Information, Manufacturing Base and Competitors

Table 31. Fulltech Fiber Glass Major Business

Table 32. Fulltech Fiber Glass NER Low-Dielectric Glass Fiber Product and Services

Table 33. Fulltech Fiber Glass NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Fulltech Fiber Glass Recent Developments/Updates

Table 35. Sinoma Basic Information, Manufacturing Base and Competitors

Table 36. Sinoma Major Business

Table 37. Sinoma NER Low-Dielectric Glass Fiber Product and Services

Table 38. Sinoma NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Sinoma Recent Developments/Updates

Table 40. Grace Fabric Technology Basic Information, Manufacturing Base and Competitors

Table 41. Grace Fabric Technology Major Business

Table 42. Grace Fabric Technology NER Low-Dielectric Glass Fiber Product and Services

Table 43. Grace Fabric Technology NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Grace Fabric Technology Recent Developments/Updates

Table 45. Taishan Fiberglass Basic Information, Manufacturing Base and Competitors

Table 46. Taishan Fiberglass Major Business

Table 47. Taishan Fiberglass NER Low-Dielectric Glass Fiber Product and Services

Table 48. Taishan Fiberglass NER Low-Dielectric Glass Fiber Sales Quantity (K Meter), Average Price (US\$/Meter), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Taishan Fiberglass Recent Developments/Updates

Table 50. Global NER Low-Dielectric Glass Fiber Sales Quantity by Manufacturer (2021-2026) & (K Meter)

Table 51. Global NER Low-Dielectric Glass Fiber Revenue by Manufacturer (2021-2026) & (USD Million)

Table 52. Global NER Low-Dielectric Glass Fiber Average Price by Manufacturer (2021-2026) & (US\$/Meter)

Table 53. Market Position of Manufacturers in NER Low-Dielectric Glass Fiber, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 54. Head Office and NER Low-Dielectric Glass Fiber Production Site of Key Manufacturer

Table 55. NER Low-Dielectric Glass Fiber Market: Company Product Type Footprint

Table 56. NER Low-Dielectric Glass Fiber Market: Company Product Application Footprint

Table 57. NER Low-Dielectric Glass Fiber New Market Entrants and Barriers to Market Entry

Table 58. NER Low-Dielectric Glass Fiber Mergers, Acquisition, Agreements, and Collaborations

Table 59. Global NER Low-Dielectric Glass Fiber Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 60. Global NER Low-Dielectric Glass Fiber Sales Quantity by Region (2021-2026) & (K Meter)

Table 61. Global NER Low-Dielectric Glass Fiber Sales Quantity by Region (2027-2032) & (K Meter)

Table 62. Global NER Low-Dielectric Glass Fiber Consumption Value by Region (2021-2026) & (USD Million)

Table 63. Global NER Low-Dielectric Glass Fiber Consumption Value by Region (2027-2032) & (USD Million)

Table 64. Global NER Low-Dielectric Glass Fiber Average Price by Region (2021-2026) & (US\$/Meter)

Table 65. Global NER Low-Dielectric Glass Fiber Average Price by Region (2027-2032) & (US\$/Meter)

Table 66. Global NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2026) & (K Meter)

Table 67. Global NER Low-Dielectric Glass Fiber Sales Quantity by Type (2027-2032) & (K Meter)

Table 68. Global NER Low-Dielectric Glass Fiber Consumption Value by Type (2021-2026) & (USD Million)

Table 69. Global NER Low-Dielectric Glass Fiber Consumption Value by Type (2027-2032) & (USD Million)

Table 70. Global NER Low-Dielectric Glass Fiber Average Price by Type (2021-2026) & (US\$/Meter)

Table 71. Global NER Low-Dielectric Glass Fiber Average Price by Type (2027-2032) & (US\$/Meter)

Table 72. Global NER Low-Dielectric Glass Fiber Sales Quantity by Application (2021-2026) & (K Meter)

Table 73. Global NER Low-Dielectric Glass Fiber Sales Quantity by Application (2027-2032) & (K Meter)

Table 74. Global NER Low-Dielectric Glass Fiber Consumption Value by Application (2021-2026) & (USD Million)

Table 75. Global NER Low-Dielectric Glass Fiber Consumption Value by Application (2027-2032) & (USD Million)

Table 76. Global NER Low-Dielectric Glass Fiber Average Price by Application (2021-2026) & (US\$/Meter)

Table 77. Global NER Low-Dielectric Glass Fiber Average Price by Application (2027-2032) & (US\$/Meter)

Table 78. North America NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2026) & (K Meter)

Table 79. North America NER Low-Dielectric Glass Fiber Sales Quantity by Type (2027-2032) & (K Meter)

Table 80. North America NER Low-Dielectric Glass Fiber Sales Quantity by Application (2021-2026) & (K Meter)

Table 81. North America NER Low-Dielectric Glass Fiber Sales Quantity by Application (2027-2032) & (K Meter)

Table 82. North America NER Low-Dielectric Glass Fiber Sales Quantity by Country (2021-2026) & (K Meter)

Table 83. North America NER Low-Dielectric Glass Fiber Sales Quantity by Country (2027-2032) & (K Meter)

Table 84. North America NER Low-Dielectric Glass Fiber Consumption Value by Country (2021-2026) & (USD Million)

Table 85. North America NER Low-Dielectric Glass Fiber Consumption Value by Country (2027-2032) & (USD Million)

Table 86. Europe NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2026) & (K Meter)

Table 87. Europe NER Low-Dielectric Glass Fiber Sales Quantity by Type (2027-2032) & (K Meter)

Table 88. Europe NER Low-Dielectric Glass Fiber Sales Quantity by Application (2021-2026) & (K Meter)

Table 89. Europe NER Low-Dielectric Glass Fiber Sales Quantity by Application

(2027-2032) & (K Meter)

Table 90. Europe NER Low-Dielectric Glass Fiber Sales Quantity by Country
(2021-2026) & (K Meter)

Table 91. Europe NER Low-Dielectric Glass Fiber Sales Quantity by Country
(2027-2032) & (K Meter)

Table 92. Europe NER Low-Dielectric Glass Fiber Consumption Value by Country
(2021-2026) & (USD Million)

Table 93. Europe NER Low-Dielectric Glass Fiber Consumption Value by Country
(2027-2032) & (USD Million)

Table 94. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Type
(2021-2026) & (K Meter)

Table 95. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Type
(2027-2032) & (K Meter)

Table 96. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Application
(2021-2026) & (K Meter)

Table 97. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Application
(2027-2032) & (K Meter)

Table 98. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Region
(2021-2026) & (K Meter)

Table 99. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity by Region
(2027-2032) & (K Meter)

Table 100. Asia-Pacific NER Low-Dielectric Glass Fiber Consumption Value by Region
(2021-2026) & (USD Million)

Table 101. Asia-Pacific NER Low-Dielectric Glass Fiber Consumption Value by Region
(2027-2032) & (USD Million)

Table 102. South America NER Low-Dielectric Glass Fiber Sales Quantity by Type
(2021-2026) & (K Meter)

Table 103. South America NER Low-Dielectric Glass Fiber Sales Quantity by Type
(2027-2032) & (K Meter)

Table 104. South America NER Low-Dielectric Glass Fiber Sales Quantity by
Application (2021-2026) & (K Meter)

Table 105. South America NER Low-Dielectric Glass Fiber Sales Quantity by
Application (2027-2032) & (K Meter)

Table 106. South America NER Low-Dielectric Glass Fiber Sales Quantity by Country
(2021-2026) & (K Meter)

Table 107. South America NER Low-Dielectric Glass Fiber Sales Quantity by Country
(2027-2032) & (K Meter)

Table 108. South America NER Low-Dielectric Glass Fiber Consumption Value by
Country (2021-2026) & (USD Million)

Table 109. South America NER Low-Dielectric Glass Fiber Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Type (2021-2026) & (K Meter)

Table 111. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Type (2027-2032) & (K Meter)

Table 112. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Application (2021-2026) & (K Meter)

Table 113. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Application (2027-2032) & (K Meter)

Table 114. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Country (2021-2026) & (K Meter)

Table 115. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity by Country (2027-2032) & (K Meter)

Table 116. Middle East & Africa NER Low-Dielectric Glass Fiber Consumption Value by Country (2021-2026) & (USD Million)

Table 117. Middle East & Africa NER Low-Dielectric Glass Fiber Consumption Value by Country (2027-2032) & (USD Million)

Table 118. NER Low-Dielectric Glass Fiber Raw Material

Table 119. Key Manufacturers of NER Low-Dielectric Glass Fiber Raw Materials

Table 120. NER Low-Dielectric Glass Fiber Typical Distributors

Table 121. NER Low-Dielectric Glass Fiber Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. NER Low-Dielectric Glass Fiber Picture

Figure 2. Global NER Low-Dielectric Glass Fiber Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global NER Low-Dielectric Glass Fiber Revenue Market Share by Type in 2025

Figure 4. Fiberglass Yarn Examples

Figure 5. Fiberglass Cloth Examples

Figure 6. Global NER Low-Dielectric Glass Fiber Revenue by Dielectric Constant, (USD Million), 2021 & 2025 & 2032

Figure 7. Global NER Low-Dielectric Glass Fiber Revenue Market Share by Dielectric Constant in 2025

Figure 8. 6.0-7.0 Examples

Figure 9. 4.5-4.9 Examples

Figure 10. 4.0-4.5 Examples

Figure 11. 3.8-4.2 Examples

Figure 12. 3.5-3.8 Examples

Figure 13. Global NER Low-Dielectric Glass Fiber Revenue by Filament Diameter, (USD Million), 2021 & 2025 & 2032

Figure 14. Global NER Low-Dielectric Glass Fiber Revenue Market Share by Filament Diameter in 2025

Figure 15. 7-9 ?m Examples

Figure 16. 5-7 ?m Examples

Figure 17. 4-5 ?m Examples

Figure 18. Others Examples

Figure 19. Global NER Low-Dielectric Glass Fiber Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 20. Global NER Low-Dielectric Glass Fiber Revenue Market Share by Application in 2025

Figure 21. Servers Examples

Figure 22. Data Centers Examples

Figure 23. Switches Examples

Figure 24. Communication Equipment Examples

Figure 25. High-speed Router Examples

Figure 26. Others Examples

Figure 27. Global NER Low-Dielectric Glass Fiber Consumption Value, (USD Million):

2021 & 2025 & 2032

Figure 28. Global NER Low-Dielectric Glass Fiber Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 29. Global NER Low-Dielectric Glass Fiber Sales Quantity (2021-2032) & (K Meter)

Figure 30. Global NER Low-Dielectric Glass Fiber Price (2021-2032) & (US\$/Meter)

Figure 31. Global NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Manufacturer in 2025

Figure 32. Global NER Low-Dielectric Glass Fiber Revenue Market Share by Manufacturer in 2025

Figure 33. Producer Shipments of NER Low-Dielectric Glass Fiber by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 34. Top 3 NER Low-Dielectric Glass Fiber Manufacturer (Revenue) Market Share in 2025

Figure 35. Top 6 NER Low-Dielectric Glass Fiber Manufacturer (Revenue) Market Share in 2025

Figure 36. Global NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Region (2021-2032)

Figure 37. Global NER Low-Dielectric Glass Fiber Consumption Value Market Share by Region (2021-2032)

Figure 38. North America NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 39. Europe NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 40. Asia-Pacific NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 41. South America NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 42. Middle East & Africa NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 43. Global NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Type (2021-2032)

Figure 44. Global NER Low-Dielectric Glass Fiber Consumption Value Market Share by Type (2021-2032)

Figure 45. Global NER Low-Dielectric Glass Fiber Average Price by Type (2021-2032) & (US\$/Meter)

Figure 46. Global NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Application (2021-2032)

Figure 47. Global NER Low-Dielectric Glass Fiber Revenue Market Share by

Application (2021-2032)

Figure 48. Global NER Low-Dielectric Glass Fiber Average Price by Application (2021-2032) & (US\$/Meter)

Figure 49. North America NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Type (2021-2032)

Figure 50. North America NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Application (2021-2032)

Figure 51. North America NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Country (2021-2032)

Figure 52. North America NER Low-Dielectric Glass Fiber Consumption Value Market Share by Country (2021-2032)

Figure 53. United States NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 54. Canada NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 55. Mexico NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 56. Europe NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Type (2021-2032)

Figure 57. Europe NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Application (2021-2032)

Figure 58. Europe NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Country (2021-2032)

Figure 59. Europe NER Low-Dielectric Glass Fiber Consumption Value Market Share by Country (2021-2032)

Figure 60. Germany NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 61. France NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 62. United Kingdom NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 63. Russia NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 64. Italy NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 65. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Type (2021-2032)

Figure 66. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Application (2021-2032)

Figure 67. Asia-Pacific NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Region (2021-2032)

Figure 68. Asia-Pacific NER Low-Dielectric Glass Fiber Consumption Value Market Share by Region (2021-2032)

Figure 69. China NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 70. Japan NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 71. South Korea NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 72. India NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 73. Southeast Asia NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 74. Australia NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 75. South America NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Type (2021-2032)

Figure 76. South America NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Application (2021-2032)

Figure 77. South America NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Country (2021-2032)

Figure 78. South America NER Low-Dielectric Glass Fiber Consumption Value Market Share by Country (2021-2032)

Figure 79. Brazil NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 80. Argentina NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 81. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Type (2021-2032)

Figure 82. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Application (2021-2032)

Figure 83. Middle East & Africa NER Low-Dielectric Glass Fiber Sales Quantity Market Share by Country (2021-2032)

Figure 84. Middle East & Africa NER Low-Dielectric Glass Fiber Consumption Value Market Share by Country (2021-2032)

Figure 85. Turkey NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) & (USD Million)

Figure 86. Egypt NER Low-Dielectric Glass Fiber Consumption Value (2021-2032) &

(USD Million)

Figure 87. Saudi Arabia NER Low-Dielectric Glass Fiber Consumption Value
(2021-2032) & (USD Million)

Figure 88. South Africa NER Low-Dielectric Glass Fiber Consumption Value
(2021-2032) & (USD Million)

Figure 89. NER Low-Dielectric Glass Fiber Market Drivers

Figure 90. NER Low-Dielectric Glass Fiber Market Restraints

Figure 91. NER Low-Dielectric Glass Fiber Market Trends

Figure 92. Porters Five Forces Analysis

Figure 93. Manufacturing Cost Structure Analysis of NER Low-Dielectric Glass Fiber in
2025

Figure 94. Manufacturing Process Analysis of NER Low-Dielectric Glass Fiber

Figure 95. NER Low-Dielectric Glass Fiber Industrial Chain

Figure 96. Sales Channel: Direct to End-User vs Distributors

Figure 97. Direct Channel Pros & Cons

Figure 98. Indirect Channel Pros & Cons

Figure 99. Methodology

Figure 100. Research Process and Data Source

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