

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

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Abstracts

The global NE Low-Dielectric Glass Fiber market size is predicted to grow from US\$ 111 million in 2025 to US\$ 201 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

In 2025, global NE Low-Dielectric Glass Fiber production reached approximately 45.52 million meters, with an average global market price of around US\$2.5 per meter.

NE Low-Dielectric Glass Fiber is an advanced electronic-grade glass fiber material specifically developed for high-frequency, high-speed electronic circuits and advanced packaging applications. Originally pioneered by Nittobo, NE-grade glass fiber features an optimized glass composition with reduced alkaline-earth metal oxides and enhanced low-dielectric components, resulting in significantly lower dielectric constant (Dk) and dissipation factor (Df) compared with conventional E-glass materials. These properties help reduce insertion loss, signal attenuation, and glass weave effects in high-speed signal transmission. NE low-dielectric glass fiber is commonly supplied in the form of glass yarn and electronic glass cloth, which are combined with low-Dk resin systems to manufacture high-speed copper-clad laminates (CCL), printed circuit boards (PCB), AI server motherboards, switches, routers, optical communication modules, data-center equipment, and semiconductor package substrates. Driven by the growth of AI servers, 800G/1.6T networking equipment, high-performance computing (HPC), cloud infrastructure, and advanced packaging technologies, NE-grade low-dielectric glass fiber has become a critical material in the high-end PCB and CCL supply chain, enabling improved signal integrity and reduced transmission loss for next-generation electronic systems.

The upstream supply chain of NE low-dielectric glass fiber includes suppliers of high-

purity silica sand, boric acid, borates, alumina, limestone, dolomite, feldspar, sizing agents, coupling agents, platinum-rhodium bushings, fiber-drawing furnaces, warping equipment, and electronic glass-cloth weaving machinery. Representative suppliers include Sibelco, The Quartz Corp, Covia, Eti Maden, Rio Tinto Borates, Almatiss, Momentive, and Shin-Etsu Chemical. The midstream segment consists of manufacturers of low-dielectric glass yarn and electronic glass cloth, including Nittobo, Asahi Kasei, Taiwan Glas. Downstream applications are concentrated in high-speed copper-clad laminates, printed circuit boards, AI server motherboards, GPU accelerator boards, switches, routers, optical communication equipment, data-center infrastructure, and semiconductor package substrates. Representative downstream companies include Panasonic Industry, Rogers, Isola, Elite Material, Shengyi Technology, Nan Ya New Material, ITEQ, NVIDIA, AMD, Broadcom, Cisco, Arista, Dell, HPE, Supermicro, Quanta, Foxconn, Google, Microsoft, Amazon, and Meta. High-purity raw materials and glass formulations determine dielectric performance, while midstream producers manufacture low-Dk yarn and glass cloth. Demand from high-frequency PCBs, AI computing platforms, and advanced packaging technologies continues to drive the development of thinner, lower-loss, and higher-performance NE-grade glass fiber products.

The NE low-dielectric glass fiber market is currently experiencing strong demand growth and continuous technology upgrades. The expansion of AI servers, high-performance computing systems, 800G and higher-speed networking equipment, optical communication devices, and advanced package substrates is driving the transition toward higher-frequency and higher-speed PCB and copper-clad laminate materials. Major market trends include lower dielectric constant, lower signal loss, thinner glass-cloth structures, improved dimensional stability, and enhanced compatibility with advanced low-Dk resin systems. Key growth drivers include AI infrastructure investment, data-center expansion, network-speed upgrades, and increasing adoption of advanced packaging technologies. Major challenges include high technical barriers, lengthy qualification cycles, stringent raw-material purity requirements, long capacity-expansion timelines, and the dominance of a limited number of leading suppliers in premium segments. Overall, NE low-dielectric glass fiber represents a high-value, technology-intensive segment of the electronic materials industry and is expected to remain strategically important for AI computing and high-speed communication applications.

LP Information, Inc. (LPI) ' newest research report, the "NE Low-Dielectric Glass Fiber Industry Forecast" looks at past sales and reviews total world NE Low-Dielectric Glass Fiber sales in 2025, providing a comprehensive analysis by region and market sector of

projected NE Low-Dielectric Glass Fiber sales for 2026 through 2032. With NE 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 NE Low-Dielectric Glass Fiber industry.

This Insight Report provides a comprehensive analysis of the global NE 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 NE 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 NE Low-Dielectric Glass Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NE 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 NE Low-Dielectric Glass Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of NE 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 Properties:

6.0-7.0 Dk

4.5-4.9 Dk

4.0-4.5 Dk

3.5-3.8 Dk

Segmentation by Thickness:

0.011-0.020 mm

0.020-0.050 mm

0.090-0.095 mm

Others

Segmentation by Application:

Servers

Data Centers

Switches

Communication Equipment

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

TAIWANGLASS

Sinoma

Grace Fabric Technology

Key Questions Addressed in this Report

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

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

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

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

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

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global NE Low-Dielectric Glass Fiber Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for NE Low-Dielectric Glass Fiber by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for NE Low-Dielectric Glass Fiber by Country/Region, 2021, 2025 & 2032
- 2.2 NE Low-Dielectric Glass Fiber Segment by Type
 - 2.2.1 Fiberglass Yarn
 - 2.2.2 Fiberglass Cloth
 - 2.2.3 NE Low-Dielectric Glass Fiber Sales by Type
 - 2.2.3.1 Global NE Low-Dielectric Glass Fiber Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global NE Low-Dielectric Glass Fiber Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global NE Low-Dielectric Glass Fiber Sale Price by Type (2021-2026)
- 2.3 NE Low-Dielectric Glass Fiber Segment by Dielectric Properties
 - 2.3.1 6.0-7.0 Dk
 - 2.3.2 4.5-4.9 Dk
 - 2.3.3 4.0-4.5 Dk
 - 2.3.4 3.5-3.8 Dk
 - 2.3.5 NE Low-Dielectric Glass Fiber Sales by Dielectric Properties
 - 2.3.5.1 Global NE Low-Dielectric Glass Fiber Sales Market Share by Dielectric Properties (2021-2026)
 - 2.3.5.2 Global NE Low-Dielectric Glass Fiber Revenue and Market Share by

Dielectric Properties (2021-2026)

2.3.5.3 Global NE Low-Dielectric Glass Fiber Sale Price by Dielectric Properties (2021-2026)

2.4 NE Low-Dielectric Glass Fiber Segment by Thickness

2.4.1 0.011-0.020 mm

2.4.2 0.020-0.050 mm

2.4.3 0.090-0.095 mm

2.4.4 Others

2.4.5 NE Low-Dielectric Glass Fiber Sales by Thickness

2.4.5.1 Global NE Low-Dielectric Glass Fiber Sales Market Share by Thickness (2021-2026)

2.4.5.2 Global NE Low-Dielectric Glass Fiber Revenue and Market Share by Thickness (2021-2026)

2.4.5.3 Global NE Low-Dielectric Glass Fiber Sale Price by Thickness (2021-2026)

2.5 NE Low-Dielectric Glass Fiber Segment by Application

2.5.1 Servers

2.5.2 Data Centers

2.5.3 Switches

2.5.4 Communication Equipment

2.5.5 Others

2.5.6 NE Low-Dielectric Glass Fiber Sales by Application

2.5.6.1 Global NE Low-Dielectric Glass Fiber Sale Market Share by Application (2021-2026)

2.5.6.2 Global NE Low-Dielectric Glass Fiber Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global NE Low-Dielectric Glass Fiber Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global NE Low-Dielectric Glass Fiber Breakdown Data by Company

3.1.1 Global NE Low-Dielectric Glass Fiber Annual Sales by Company (2021-2026)

3.1.2 Global NE Low-Dielectric Glass Fiber Sales Market Share by Company (2021-2026)

3.2 Global NE Low-Dielectric Glass Fiber Annual Revenue by Company (2021-2026)

3.2.1 Global NE Low-Dielectric Glass Fiber Revenue by Company (2021-2026)

3.2.2 Global NE Low-Dielectric Glass Fiber Revenue Market Share by Company (2021-2026)

3.3 Global NE Low-Dielectric Glass Fiber Sale Price by Company

3.4 Key Manufacturers NE Low-Dielectric Glass Fiber Producing Area Distribution,

Sales Area, Product Type

3.4.1 Key Manufacturers NE Low-Dielectric Glass Fiber Product Location Distribution

3.4.2 Players NE Low-Dielectric Glass Fiber Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR NE LOW-DIELECTRIC GLASS FIBER BY GEOGRAPHIC REGION

4.1 World Historic NE Low-Dielectric Glass Fiber Market Size by Geographic Region (2021-2026)

4.1.1 Global NE Low-Dielectric Glass Fiber Annual Sales by Geographic Region (2021-2026)

4.1.2 Global NE Low-Dielectric Glass Fiber Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic NE Low-Dielectric Glass Fiber Market Size by Country/Region (2021-2026)

4.2.1 Global NE Low-Dielectric Glass Fiber Annual Sales by Country/Region (2021-2026)

4.2.2 Global NE Low-Dielectric Glass Fiber Annual Revenue by Country/Region (2021-2026)

4.3 Americas NE Low-Dielectric Glass Fiber Sales Growth

4.4 APAC NE Low-Dielectric Glass Fiber Sales Growth

4.5 Europe NE Low-Dielectric Glass Fiber Sales Growth

4.6 Middle East & Africa NE Low-Dielectric Glass Fiber Sales Growth

5 AMERICAS

5.1 Americas NE Low-Dielectric Glass Fiber Sales by Country

5.1.1 Americas NE Low-Dielectric Glass Fiber Sales by Country (2021-2026)

5.1.2 Americas NE Low-Dielectric Glass Fiber Revenue by Country (2021-2026)

5.2 Americas NE Low-Dielectric Glass Fiber Sales by Type (2021-2026)

5.3 Americas NE Low-Dielectric Glass Fiber Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC NE Low-Dielectric Glass Fiber Sales by Region

6.1.1 APAC NE Low-Dielectric Glass Fiber Sales by Region (2021-2026)

6.1.2 APAC NE Low-Dielectric Glass Fiber Revenue by Region (2021-2026)

6.2 APAC NE Low-Dielectric Glass Fiber Sales by Type (2021-2026)

6.3 APAC NE Low-Dielectric Glass Fiber Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe NE Low-Dielectric Glass Fiber by Country

7.1.1 Europe NE Low-Dielectric Glass Fiber Sales by Country (2021-2026)

7.1.2 Europe NE Low-Dielectric Glass Fiber Revenue by Country (2021-2026)

7.2 Europe NE Low-Dielectric Glass Fiber Sales by Type (2021-2026)

7.3 Europe NE Low-Dielectric Glass Fiber Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa NE Low-Dielectric Glass Fiber by Country

8.1.1 Middle East & Africa NE Low-Dielectric Glass Fiber Sales by Country (2021-2026)

8.1.2 Middle East & Africa NE Low-Dielectric Glass Fiber Revenue by Country (2021-2026)

8.2 Middle East & Africa NE Low-Dielectric Glass Fiber Sales by Type (2021-2026)

8.3 Middle East & Africa NE Low-Dielectric Glass Fiber Sales by Application

(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of NE Low-Dielectric Glass Fiber

10.3 Manufacturing Process Analysis of NE Low-Dielectric Glass Fiber

10.4 Industry Chain Structure of NE Low-Dielectric Glass Fiber

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 NE Low-Dielectric Glass Fiber Distributors

11.3 NE Low-Dielectric Glass Fiber Customer

12 WORLD FORECAST REVIEW FOR NE LOW-DIELECTRIC GLASS FIBER BY GEOGRAPHIC REGION

12.1 Global NE Low-Dielectric Glass Fiber Market Size Forecast by Region

12.1.1 Global NE Low-Dielectric Glass Fiber Forecast by Region (2027-2032)

12.1.2 Global NE Low-Dielectric Glass Fiber Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global NE Low-Dielectric Glass Fiber Forecast by Type (2027-2032)

12.7 Global NE Low-Dielectric Glass Fiber Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Nittobo

13.1.1 Nittobo Company Information

13.1.2 Nittobo NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

13.1.3 Nittobo NE Low-Dielectric Glass Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Nittobo Main Business Overview

13.1.5 Nittobo Latest Developments

13.2 Asahi Kasei

13.2.1 Asahi Kasei Company Information

13.2.2 Asahi Kasei NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

13.2.3 Asahi Kasei NE Low-Dielectric Glass Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Asahi Kasei Main Business Overview

13.2.5 Asahi Kasei Latest Developments

13.3 TAIWANGLASS

13.3.1 TAIWANGLASS Company Information

13.3.2 TAIWANGLASS NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

13.3.3 TAIWANGLASS NE Low-Dielectric Glass Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 TAIWANGLASS Main Business Overview

13.3.5 TAIWANGLASS Latest Developments

13.4 Sinoma

13.4.1 Sinoma Company Information

13.4.2 Sinoma NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

13.4.3 Sinoma NE Low-Dielectric Glass Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Sinoma Main Business Overview

13.4.5 Sinoma Latest Developments

13.5 Grace Fabric Technology

13.5.1 Grace Fabric Technology Company Information

13.5.2 Grace Fabric Technology NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

13.5.3 Grace Fabric Technology NE Low-Dielectric Glass Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Grace Fabric Technology Main Business Overview

13.5.5 Grace Fabric Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. NE Low-Dielectric Glass Fiber Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. NE Low-Dielectric Glass Fiber Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Fiberglass Yarn

Table 4. Major Players of Fiberglass Cloth

Table 5. Global NE Low-Dielectric Glass Fiber Sales by Type (2021-2026) & (K Meter)

Table 6. Global NE Low-Dielectric Glass Fiber Sales Market Share by Type (2021-2026)

Table 7. Global NE Low-Dielectric Glass Fiber Revenue by Type (2021-2026) & (\$ million)

Table 8. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Type (2021-2026)

Table 9. Global NE Low-Dielectric Glass Fiber Sale Price by Type (2021-2026) & (US\$/Meter)

Table 10. Major Players of 6.0-7.0 Dk

Table 11. Major Players of 4.5-4.9 Dk

Table 12. Major Players of 4.0-4.5 Dk

Table 13. Major Players of 3.5-3.8 Dk

Table 14. Global NE Low-Dielectric Glass Fiber Sales by Dielectric Properties (2021-2026) & (K Meter)

Table 15. Global NE Low-Dielectric Glass Fiber Sales Market Share by Dielectric Properties (2021-2026)

Table 16. Global NE Low-Dielectric Glass Fiber Revenue by Dielectric Properties (2021-2026) & (\$ million)

Table 17. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Dielectric Properties (2021-2026)

Table 18. Global NE Low-Dielectric Glass Fiber Sale Price by Dielectric Properties (2021-2026) & (US\$/Meter)

Table 19. Major Players of 0.011-0.020 mm

Table 20. Major Players of 0.020-0.050 mm

Table 21. Major Players of 0.090-0.095 mm

Table 22. Major Players of Others

Table 23. Global NE Low-Dielectric Glass Fiber Sales by Thickness (2021-2026) & (K Meter)

Table 24. Global NE Low-Dielectric Glass Fiber Sales Market Share by Thickness (2021-2026)

Table 25. Global NE Low-Dielectric Glass Fiber Revenue by Thickness (2021-2026) & (\$ million)

Table 26. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Thickness (2021-2026)

Table 27. Global NE Low-Dielectric Glass Fiber Sale Price by Thickness (2021-2026) & (US\$/Meter)

Table 28. Global NE Low-Dielectric Glass Fiber Sale by Application (2021-2026) & (K Meter)

Table 29. Global NE Low-Dielectric Glass Fiber Sale Market Share by Application (2021-2026)

Table 30. Global NE Low-Dielectric Glass Fiber Revenue by Application (2021-2026) & (\$ million)

Table 31. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Application (2021-2026)

Table 32. Global NE Low-Dielectric Glass Fiber Sale Price by Application (2021-2026) & (US\$/Meter)

Table 33. Global NE Low-Dielectric Glass Fiber Sales by Company (2021-2026) & (K Meter)

Table 34. Global NE Low-Dielectric Glass Fiber Sales Market Share by Company (2021-2026)

Table 35. Global NE Low-Dielectric Glass Fiber Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Company (2021-2026)

Table 37. Global NE Low-Dielectric Glass Fiber Sale Price by Company (2021-2026) & (US\$/Meter)

Table 38. Key Manufacturers NE Low-Dielectric Glass Fiber Producing Area Distribution and Sales Area

Table 39. Players NE Low-Dielectric Glass Fiber Products Offered

Table 40. NE Low-Dielectric Glass Fiber Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global NE Low-Dielectric Glass Fiber Sales by Geographic Region (2021-2026) & (K Meter)

Table 44. Global NE Low-Dielectric Glass Fiber Sales Market Share Geographic Region (2021-2026)

Table 45. Global NE Low-Dielectric Glass Fiber Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global NE Low-Dielectric Glass Fiber Sales by Country/Region (2021-2026) & (K Meter)

Table 48. Global NE Low-Dielectric Glass Fiber Sales Market Share by Country/Region (2021-2026)

Table 49. Global NE Low-Dielectric Glass Fiber Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas NE Low-Dielectric Glass Fiber Sales by Country (2021-2026) & (K Meter)

Table 52. Americas NE Low-Dielectric Glass Fiber Sales Market Share by Country (2021-2026)

Table 53. Americas NE Low-Dielectric Glass Fiber Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas NE Low-Dielectric Glass Fiber Sales by Type (2021-2026) & (K Meter)

Table 55. Americas NE Low-Dielectric Glass Fiber Sales by Application (2021-2026) & (K Meter)

Table 56. APAC NE Low-Dielectric Glass Fiber Sales by Region (2021-2026) & (K Meter)

Table 57. APAC NE Low-Dielectric Glass Fiber Sales Market Share by Region (2021-2026)

Table 58. APAC NE Low-Dielectric Glass Fiber Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC NE Low-Dielectric Glass Fiber Sales by Type (2021-2026) & (K Meter)

Table 60. APAC NE Low-Dielectric Glass Fiber Sales by Application (2021-2026) & (K Meter)

Table 61. Europe NE Low-Dielectric Glass Fiber Sales by Country (2021-2026) & (K Meter)

Table 62. Europe NE Low-Dielectric Glass Fiber Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe NE Low-Dielectric Glass Fiber Sales by Type (2021-2026) & (K Meter)

Table 64. Europe NE Low-Dielectric Glass Fiber Sales by Application (2021-2026) & (K Meter)

Table 65. Middle East & Africa NE Low-Dielectric Glass Fiber Sales by Country (2021-2026) & (K Meter)

Table 66. Middle East & Africa NE Low-Dielectric Glass Fiber Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa NE Low-Dielectric Glass Fiber Sales by Type (2021-2026) & (K Meter)

Table 68. Middle East & Africa NE Low-Dielectric Glass Fiber Sales by Application (2021-2026) & (K Meter)

Table 69. Key Market Drivers & Growth Opportunities of NE Low-Dielectric Glass Fiber

Table 70. Key Market Challenges & Risks of NE Low-Dielectric Glass Fiber

Table 71. Key Industry Trends of NE Low-Dielectric Glass Fiber

Table 72. NE Low-Dielectric Glass Fiber Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. NE Low-Dielectric Glass Fiber Distributors List

Table 75. NE Low-Dielectric Glass Fiber Customer List

Table 76. Global NE Low-Dielectric Glass Fiber Sales Forecast by Region (2027-2032) & (K Meter)

Table 77. Global NE Low-Dielectric Glass Fiber Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas NE Low-Dielectric Glass Fiber Sales Forecast by Country (2027-2032) & (K Meter)

Table 79. Americas NE Low-Dielectric Glass Fiber Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC NE Low-Dielectric Glass Fiber Sales Forecast by Region (2027-2032) & (K Meter)

Table 81. APAC NE Low-Dielectric Glass Fiber Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe NE Low-Dielectric Glass Fiber Sales Forecast by Country (2027-2032) & (K Meter)

Table 83. Europe NE Low-Dielectric Glass Fiber Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa NE Low-Dielectric Glass Fiber Sales Forecast by Country (2027-2032) & (K Meter)

Table 85. Middle East & Africa NE Low-Dielectric Glass Fiber Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global NE Low-Dielectric Glass Fiber Sales Forecast by Type (2027-2032) & (K Meter)

Table 87. Global NE Low-Dielectric Glass Fiber Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global NE Low-Dielectric Glass Fiber Sales Forecast by Application (2027-2032) & (K Meter)

Table 89. Global NE Low-Dielectric Glass Fiber Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Nittobo Basic Information, NE Low-Dielectric Glass Fiber Manufacturing Base, Sales Area and Its Competitors

Table 91. Nittobo NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

Table 92. Nittobo NE Low-Dielectric Glass Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 93. Nittobo Main Business

Table 94. Nittobo Latest Developments

Table 95. Asahi Kasei Basic Information, NE Low-Dielectric Glass Fiber Manufacturing Base, Sales Area and Its Competitors

Table 96. Asahi Kasei NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

Table 97. Asahi Kasei NE Low-Dielectric Glass Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 98. Asahi Kasei Main Business

Table 99. Asahi Kasei Latest Developments

Table 100. TAIWANGLASS Basic Information, NE Low-Dielectric Glass Fiber Manufacturing Base, Sales Area and Its Competitors

Table 101. TAIWANGLASS NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

Table 102. TAIWANGLASS NE Low-Dielectric Glass Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 103. TAIWANGLASS Main Business

Table 104. TAIWANGLASS Latest Developments

Table 105. Sinoma Basic Information, NE Low-Dielectric Glass Fiber Manufacturing Base, Sales Area and Its Competitors

Table 106. Sinoma NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

Table 107. Sinoma NE Low-Dielectric Glass Fiber Sales (K Meter), Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 108. Sinoma Main Business

Table 109. Sinoma Latest Developments

Table 110. Grace Fabric Technology Basic Information, NE Low-Dielectric Glass Fiber Manufacturing Base, Sales Area and Its Competitors

Table 111. Grace Fabric Technology NE Low-Dielectric Glass Fiber Product Portfolios and Specifications

Table 112. Grace Fabric Technology NE Low-Dielectric Glass Fiber Sales (K Meter),

Revenue (\$ Million), Price (US\$/Meter) and Gross Margin (2021-2026)

Table 113. Grace Fabric Technology Main Business

Table 114. Grace Fabric Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of NE Low-Dielectric Glass Fiber
- Figure 2. NE Low-Dielectric Glass Fiber Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global NE Low-Dielectric Glass Fiber Sales Growth Rate 2021-2032 (K Meter)
- Figure 7. Global NE Low-Dielectric Glass Fiber Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. NE Low-Dielectric Glass Fiber Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. NE Low-Dielectric Glass Fiber Sales Market Share by Country/Region (2025)
- Figure 10. NE Low-Dielectric Glass Fiber Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Fiberglass Yarn
- Figure 12. Product Picture of Fiberglass Cloth
- Figure 13. Global NE Low-Dielectric Glass Fiber Sales Market Share by Type in 2026
- Figure 14. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of 6.0-7.0 Dk
- Figure 16. Product Picture of 4.5-4.9 Dk
- Figure 17. Product Picture of 4.0-4.5 Dk
- Figure 18. Product Picture of 3.5-3.8 Dk
- Figure 19. Global NE Low-Dielectric Glass Fiber Sales Market Share by Dielectric Properties in 2026
- Figure 20. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Dielectric Properties (2021-2026)
- Figure 21. Product Picture of 0.011-0.020 mm
- Figure 22. Product Picture of 0.020-0.050 mm
- Figure 23. Product Picture of 0.090-0.095 mm
- Figure 24. Product Picture of Others
- Figure 25. Global NE Low-Dielectric Glass Fiber Sales Market Share by Thickness in 2026
- Figure 26. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Thickness (2021-2026)
- Figure 27. NE Low-Dielectric Glass Fiber Consumed in Servers

Figure 28. Global NE Low-Dielectric Glass Fiber Market: Servers (2021-2026) & (K Meter)

Figure 29. NE Low-Dielectric Glass Fiber Consumed in Data Centers

Figure 30. Global NE Low-Dielectric Glass Fiber Market: Data Centers (2021-2026) & (K Meter)

Figure 31. NE Low-Dielectric Glass Fiber Consumed in Switches

Figure 32. Global NE Low-Dielectric Glass Fiber Market: Switches (2021-2026) & (K Meter)

Figure 33. NE Low-Dielectric Glass Fiber Consumed in Communication Equipment

Figure 34. Global NE Low-Dielectric Glass Fiber Market: Communication Equipment (2021-2026) & (K Meter)

Figure 35. NE Low-Dielectric Glass Fiber Consumed in Others

Figure 36. Global NE Low-Dielectric Glass Fiber Market: Others (2021-2026) & (K Meter)

Figure 37. Global NE Low-Dielectric Glass Fiber Sale Market Share by Application (2025)

Figure 38. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Application in 2025

Figure 39. NE Low-Dielectric Glass Fiber Sales by Company in 2025 (K Meter)

Figure 40. Global NE Low-Dielectric Glass Fiber Sales Market Share by Company in 2025

Figure 41. NE Low-Dielectric Glass Fiber Revenue by Company in 2025 (\$ millions)

Figure 42. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Company in 2025

Figure 43. Global NE Low-Dielectric Glass Fiber Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global NE Low-Dielectric Glass Fiber Revenue Market Share by Geographic Region in 2025

Figure 45. Americas NE Low-Dielectric Glass Fiber Sales 2021-2026 (K Meter)

Figure 46. Americas NE Low-Dielectric Glass Fiber Revenue 2021-2026 (\$ millions)

Figure 47. APAC NE Low-Dielectric Glass Fiber Sales 2021-2026 (K Meter)

Figure 48. APAC NE Low-Dielectric Glass Fiber Revenue 2021-2026 (\$ millions)

Figure 49. Europe NE Low-Dielectric Glass Fiber Sales 2021-2026 (K Meter)

Figure 50. Europe NE Low-Dielectric Glass Fiber Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa NE Low-Dielectric Glass Fiber Sales 2021-2026 (K Meter)

Figure 52. Middle East & Africa NE Low-Dielectric Glass Fiber Revenue 2021-2026 (\$ millions)

Figure 53. Americas NE Low-Dielectric Glass Fiber Sales Market Share by Country in

2025

Figure 54. Americas NE Low-Dielectric Glass Fiber Revenue Market Share by Country (2021-2026)

Figure 55. Americas NE Low-Dielectric Glass Fiber Sales Market Share by Type (2021-2026)

Figure 56. Americas NE Low-Dielectric Glass Fiber Sales Market Share by Application (2021-2026)

Figure 57. United States NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC NE Low-Dielectric Glass Fiber Sales Market Share by Region in 2025

Figure 62. APAC NE Low-Dielectric Glass Fiber Revenue Market Share by Region (2021-2026)

Figure 63. APAC NE Low-Dielectric Glass Fiber Sales Market Share by Type (2021-2026)

Figure 64. APAC NE Low-Dielectric Glass Fiber Sales Market Share by Application (2021-2026)

Figure 65. China NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 66. Japan NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 67. South Korea NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 68. Southeast Asia NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 69. India NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 70. Australia NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 71. China Taiwan NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 72. Europe NE Low-Dielectric Glass Fiber Sales Market Share by Country in 2025

Figure 73. Europe NE Low-Dielectric Glass Fiber Revenue Market Share by Country (2021-2026)

Figure 74. Europe NE Low-Dielectric Glass Fiber Sales Market Share by Type (2021-2026)

Figure 75. Europe NE Low-Dielectric Glass Fiber Sales Market Share by Application (2021-2026)

Figure 76. Germany NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 77. France NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 78. UK NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 79. Italy NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 80. Russia NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 81. Middle East & Africa NE Low-Dielectric Glass Fiber Sales Market Share by Country (2021-2026)

Figure 82. Middle East & Africa NE Low-Dielectric Glass Fiber Sales Market Share by Type (2021-2026)

Figure 83. Middle East & Africa NE Low-Dielectric Glass Fiber Sales Market Share by Application (2021-2026)

Figure 84. Egypt NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 85. South Africa NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 86. Israel NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 87. Turkey NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 88. GCC Countries NE Low-Dielectric Glass Fiber Revenue Growth 2021-2026 (\$ millions)

Figure 89. Manufacturing Cost Structure Analysis of NE Low-Dielectric Glass Fiber in 2026

Figure 90. Manufacturing Process Analysis of NE Low-Dielectric Glass Fiber

Figure 91. Industry Chain Structure of NE Low-Dielectric Glass Fiber

Figure 92. Channels of Distribution

Figure 93. Global NE Low-Dielectric Glass Fiber Sales Market Forecast by Region (2027-2032)

Figure 94. Global NE Low-Dielectric Glass Fiber Revenue Market Share Forecast by Region (2027-2032)

Figure 95. Global NE Low-Dielectric Glass Fiber Sales Market Share Forecast by Type (2027-2032)

Figure 96. Global NE Low-Dielectric Glass Fiber Revenue Market Share Forecast by Type (2027-2032)

Figure 97. Global NE Low-Dielectric Glass Fiber Sales Market Share Forecast by Application (2027-2032)

Figure 98. Global NE Low-Dielectric Glass Fiber Revenue Market Share Forecast by Application (2027-2032)

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