

Global Alkali-Free Glass Fiber Twisted Yarn Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Alkali-Free Glass Fiber Twisted Yarn market size is expected to reach \$ 3417 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

Alkali-free glass fiber twisted yarn is an industrial reinforcing yarn material produced by taking alkali-free glass fiber as the raw material?following fiber drawing?and subjecting multiple strands of continuous or chopped glass fiber filaments to a twisting process.

The upstream segment of the industry chain primarily involves glass raw materials (such as quartz sand, limestone, and alumina), chemical additives, and sizing agents; these are processed via high-temperature melting and fiber drawing to produce E-glass (alkali-free) glass fiber strands. The midstream segment consists of the manufacturing of twisted yarn, where continuous glass fiber strands undergo bundling, twisting, sizing, and heat-setting to create products with superior bundle integrity and weaving performance; these are subsequently processed into direct rovings or yarn systems for weaving. The downstream segment sees widespread application in composite material reinforcement?including wind turbine blades, automotive structural components, marine and rail transport parts, construction reinforcement materials, and electrical insulation materials?serving as a fundamental reinforcing material within glass fiber composite systems.

In 2025, global sales volume for alkali-free glass fiber twisted yarn reached 858,000 metric tons, with a production capacity of approximately 1.225 million metric tons; the average selling price was \$2.80 per kilogram, and the average gross profit margin ranged from 20% to 30%.

Global policies regarding carbon neutrality and new energy have significantly boosted

demand for wind power and lightweight materials, indirectly driving the consumption of twisted glass fiber yarns; meanwhile, the emphasis placed by various nations on establishing independent supply chains for high-end composite materials has spurred capacity expansion and technological upgrades within the domestic glass fiber industry. China's 'dual carbon' goals and wind power installation plans, the European Green Deal, and the U.S. Infrastructure Act all provide long-term demand support for the sector, while simultaneously raising the bar for technical standards regarding high-performance materials.

This report studies the global Alkali-Free Glass Fiber Twisted Yarn production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Alkali-Free Glass Fiber Twisted Yarn total production and demand, 2021-2032, (Kilotons)

Global Alkali-Free Glass Fiber Twisted Yarn total production value, 2021-2032, (USD Million)

Global Alkali-Free Glass Fiber Twisted Yarn production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Alkali-Free Glass Fiber Twisted Yarn consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Alkali-Free Glass Fiber Twisted Yarn domestic production, consumption, key domestic manufacturers and share

Global Alkali-Free Glass Fiber Twisted Yarn production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Alkali-Free Glass Fiber Twisted Yarn production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Alkali-Free Glass Fiber Twisted Yarn production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Alkali-Free Glass Fiber Twisted 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 Nippon Electric Glass, Owens Corning, Saint-Gobain, Jushi Group, Taishan Fiberglass, CPIC, Johns Mansville, Nittobo, AGY Holding Corp, Chomarat, 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 Alkali-Free Glass Fiber Twisted Yarn market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) 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 Alkali-Free Glass Fiber Twisted Yarn Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Alkali-Free Glass Fiber Twisted Yarn Market, Segmentation by Type:

Single-Ply Twisted Yarn

Multi-Ply Twisted Yarn

Global Alkali-Free Glass Fiber Twisted Yarn Market, Segmentation by Twist Level:

20-80 T/m

80-200 T/m

?200 T/m

Global Alkali-Free Glass Fiber Twisted Yarn Market, Segmentation by Connection Method:

Braiding

Stranding

Global Alkali-Free Glass Fiber Twisted Yarn Market, Segmentation by Application:

Electronics & Electrical

Wind Power

Construction

Transportation

Others

Companies Profiled:

Nippon Electric Glass

Owens Corning

Saint-Gobain

Jushi Group

Taishan Fiberglass

CPIC

Johns Mansville

Nittobo

AGY Holding Corp

Chomarat

Huayuan New Materials

Huierjie

Nankang Luobian Fiberglass

Ganzhou Guangjian Fiberglass

Shangyou Yanhu Glass Fiber

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Alkali-Free Glass Fiber Twisted Yarn Introduction
- 1.2 World Alkali-Free Glass Fiber Twisted Yarn Supply & Forecast
 - 1.2.1 World Alkali-Free Glass Fiber Twisted Yarn Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032)
 - 1.2.3 World Alkali-Free Glass Fiber Twisted Yarn Pricing Trends (2021-2032)
- 1.3 World Alkali-Free Glass Fiber Twisted Yarn Production by Region (Based on Production Site)
 - 1.3.1 World Alkali-Free Glass Fiber Twisted Yarn Production Value by Region (2021-2032)
 - 1.3.2 World Alkali-Free Glass Fiber Twisted Yarn Production by Region (2021-2032)
 - 1.3.3 World Alkali-Free Glass Fiber Twisted Yarn Average Price by Region (2021-2032)
 - 1.3.4 North America Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032)
 - 1.3.5 Europe Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032)
 - 1.3.6 China Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032)
 - 1.3.7 Japan Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032)
 - 1.3.8 India Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032)
 - 1.3.9 Southeast Asia Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Alkali-Free Glass Fiber Twisted Yarn Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Alkali-Free Glass Fiber Twisted Yarn Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Alkali-Free Glass Fiber Twisted Yarn Demand (2021-2032)
- 2.2 World Alkali-Free Glass Fiber Twisted Yarn Consumption by Region
 - 2.2.1 World Alkali-Free Glass Fiber Twisted Yarn Consumption by Region (2021-2026)
 - 2.2.2 World Alkali-Free Glass Fiber Twisted Yarn Consumption Forecast by Region (2027-2032)
- 2.3 United States Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032)
- 2.4 China Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032)
- 2.5 Europe Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032)
- 2.6 Japan Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032)

- 2.7 South Korea Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032)
- 2.8 ASEAN Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032)
- 2.9 India Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Alkali-Free Glass Fiber Twisted Yarn Production Value by Manufacturer (2021-2026)
- 3.2 World Alkali-Free Glass Fiber Twisted Yarn Production by Manufacturer (2021-2026)
- 3.3 World Alkali-Free Glass Fiber Twisted Yarn Average Price by Manufacturer (2021-2026)
- 3.4 Alkali-Free Glass Fiber Twisted Yarn Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Alkali-Free Glass Fiber Twisted Yarn Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Alkali-Free Glass Fiber Twisted Yarn in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Alkali-Free Glass Fiber Twisted Yarn in 2025
- 3.6 Alkali-Free Glass Fiber Twisted Yarn Market: Overall Company Footprint Analysis
 - 3.6.1 Alkali-Free Glass Fiber Twisted Yarn Market: Region Footprint
 - 3.6.2 Alkali-Free Glass Fiber Twisted Yarn Market: Company Product Type Footprint
 - 3.6.3 Alkali-Free Glass Fiber Twisted Yarn Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Production Value Comparison
 - 4.1.1 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Production Value

Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Production Comparison

4.2.1 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Consumption Comparison

4.3.1 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Alkali-Free Glass Fiber Twisted Yarn Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value (2021-2026)

4.4.3 United States Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production (2021-2026)

4.5 China Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers and Market Share

4.5.1 China Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value (2021-2026)

4.5.3 China Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production (2021-2026)

4.6 Rest of World Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Alkali-Free Glass Fiber Twisted Yarn Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-Ply Twisted Yarn

5.2.2 Multi-Ply Twisted Yarn

5.3 Market Segment by Type

5.3.1 World Alkali-Free Glass Fiber Twisted Yarn Production by Type (2021-2032)

5.3.2 World Alkali-Free Glass Fiber Twisted Yarn Production Value by Type (2021-2032)

5.3.3 World Alkali-Free Glass Fiber Twisted Yarn Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TWIST LEVEL

6.1 World Alkali-Free Glass Fiber Twisted Yarn Market Size Overview by Twist Level: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Twist Level

6.2.1 20-80 T/m

6.2.2 80-200 T/m

6.2.3 ?200 T/m

6.3 Market Segment by Twist Level

6.3.1 World Alkali-Free Glass Fiber Twisted Yarn Production by Twist Level (2021-2032)

6.3.2 World Alkali-Free Glass Fiber Twisted Yarn Production Value by Twist Level (2021-2032)

6.3.3 World Alkali-Free Glass Fiber Twisted Yarn Average Price by Twist Level (2021-2032)

7 MARKET ANALYSIS BY CONNECTION METHOD

7.1 World Alkali-Free Glass Fiber Twisted Yarn Market Size Overview by Connection Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Connection Method

7.2.1 Braiding

7.2.2 Stranding

7.3 Market Segment by Connection Method

7.3.1 World Alkali-Free Glass Fiber Twisted Yarn Production by Connection Method (2021-2032)

7.3.2 World Alkali-Free Glass Fiber Twisted Yarn Production Value by Connection Method (2021-2032)

7.3.3 World Alkali-Free Glass Fiber Twisted Yarn Average Price by Connection Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Alkali-Free Glass Fiber Twisted Yarn Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electronics & Electrical

8.2.2 Wind Power

8.2.3 Construction

8.2.4 Transportation

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Alkali-Free Glass Fiber Twisted Yarn Production by Application (2021-2032)

8.3.2 World Alkali-Free Glass Fiber Twisted Yarn Production Value by Application (2021-2032)

8.3.3 World Alkali-Free Glass Fiber Twisted Yarn Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nippon Electric Glass

9.1.1 Nippon Electric Glass Details

9.1.2 Nippon Electric Glass Major Business

9.1.3 Nippon Electric Glass Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.1.4 Nippon Electric Glass Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nippon Electric Glass Recent Developments/Updates

9.1.6 Nippon Electric Glass Competitive Strengths & Weaknesses

9.2 Owens Corning

9.2.1 Owens Corning Details

9.2.2 Owens Corning Major Business

9.2.3 Owens Corning Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.2.4 Owens Corning Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Owens Corning Recent Developments/Updates

9.2.6 Owens Corning Competitive Strengths & Weaknesses

9.3 Saint-Gobain

9.3.1 Saint-Gobain Details

9.3.2 Saint-Gobain Major Business

9.3.3 Saint-Gobain Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.3.4 Saint-Gobain Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Saint-Gobain Recent Developments/Updates

9.3.6 Saint-Gobain Competitive Strengths & Weaknesses

9.4 Jushi Group

9.4.1 Jushi Group Details

9.4.2 Jushi Group Major Business

9.4.3 Jushi Group Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.4.4 Jushi Group Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Jushi Group Recent Developments/Updates

9.4.6 Jushi Group Competitive Strengths & Weaknesses

9.5 Taishan Fiberglass

9.5.1 Taishan Fiberglass Details

9.5.2 Taishan Fiberglass Major Business

9.5.3 Taishan Fiberglass Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.5.4 Taishan Fiberglass Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Taishan Fiberglass Recent Developments/Updates

9.5.6 Taishan Fiberglass Competitive Strengths & Weaknesses

9.6 CPIC

9.6.1 CPIC Details

9.6.2 CPIC Major Business

9.6.3 CPIC Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.6.4 CPIC Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 CPIC Recent Developments/Updates

9.6.6 CPIC Competitive Strengths & Weaknesses

9.7 Johns Mansville

9.7.1 Johns Mansville Details

9.7.2 Johns Mansville Major Business

9.7.3 Johns Mansville Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.7.4 Johns Mansville Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Johns Mansville Recent Developments/Updates

9.7.6 Johns Mansville Competitive Strengths & Weaknesses

9.8 Nittobo

9.8.1 Nittobo Details

9.8.2 Nittobo Major Business

9.8.3 Nittobo Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.8.4 Nittobo Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Nittobo Recent Developments/Updates

9.8.6 Nittobo Competitive Strengths & Weaknesses

9.9 AGY Holding Corp

9.9.1 AGY Holding Corp Details

9.9.2 AGY Holding Corp Major Business

9.9.3 AGY Holding Corp Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.9.4 AGY Holding Corp Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 AGY Holding Corp Recent Developments/Updates

9.9.6 AGY Holding Corp Competitive Strengths & Weaknesses

9.10 Chomarat

9.10.1 Chomarat Details

9.10.2 Chomarat Major Business

9.10.3 Chomarat Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.10.4 Chomarat Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Chomarat Recent Developments/Updates

9.10.6 Chomarat Competitive Strengths & Weaknesses

9.11 Huayuan New Materials

9.11.1 Huayuan New Materials Details

9.11.2 Huayuan New Materials Major Business

9.11.3 Huayuan New Materials Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.11.4 Huayuan New Materials Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Huayuan New Materials Recent Developments/Updates

9.11.6 Huayuan New Materials Competitive Strengths & Weaknesses

9.12 Huierjie

9.12.1 Huierjie Details

9.12.2 Huierjie Major Business

9.12.3 Huierjie Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.12.4 Huierjie Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.12.5 Huierjie Recent Developments/Updates

9.12.6 Huierjie Competitive Strengths & Weaknesses

9.13 Nankang Luobian Fiberglass

9.13.1 Nankang Luobian Fiberglass Details

9.13.2 Nankang Luobian Fiberglass Major Business

9.13.3 Nankang Luobian Fiberglass Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.13.4 Nankang Luobian Fiberglass Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Nankang Luobian Fiberglass Recent Developments/Updates

9.13.6 Nankang Luobian Fiberglass Competitive Strengths & Weaknesses

9.14 Ganzhou Guangjian Fiberglass

9.14.1 Ganzhou Guangjian Fiberglass Details

9.14.2 Ganzhou Guangjian Fiberglass Major Business

9.14.3 Ganzhou Guangjian Fiberglass Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.14.4 Ganzhou Guangjian Fiberglass Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Ganzhou Guangjian Fiberglass Recent Developments/Updates

9.14.6 Ganzhou Guangjian Fiberglass Competitive Strengths & Weaknesses

9.15 Shangyou Yanhu Glass Fiber

9.15.1 Shangyou Yanhu Glass Fiber Details

9.15.2 Shangyou Yanhu Glass Fiber Major Business

9.15.3 Shangyou Yanhu Glass Fiber Alkali-Free Glass Fiber Twisted Yarn Product and Services

9.15.4 Shangyou Yanhu Glass Fiber Alkali-Free Glass Fiber Twisted Yarn Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Shangyou Yanhu Glass Fiber Recent Developments/Updates

9.15.6 Shangyou Yanhu Glass Fiber Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Alkali-Free Glass Fiber Twisted Yarn Industry Chain

10.2 Alkali-Free Glass Fiber Twisted Yarn Upstream Analysis

10.2.1 Alkali-Free Glass Fiber Twisted Yarn Core Raw Materials

10.2.2 Main Manufacturers of Alkali-Free Glass Fiber Twisted Yarn Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Alkali-Free Glass Fiber Twisted Yarn Production Mode

10.6 Alkali-Free Glass Fiber Twisted Yarn Procurement Model

10.7 Alkali-Free Glass Fiber Twisted Yarn Industry Sales Model and Sales Channels

10.7.1 Alkali-Free Glass Fiber Twisted Yarn Sales Model

10.7.2 Alkali-Free Glass Fiber Twisted Yarn Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Region (2021-2026) & (USD Million)

Table 3. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Region (2027-2032) & (USD Million)

Table 4. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Region (2021-2026)

Table 5. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Region (2027-2032)

Table 6. World Alkali-Free Glass Fiber Twisted Yarn Production by Region (2021-2026) & (Kilotons)

Table 7. World Alkali-Free Glass Fiber Twisted Yarn Production by Region (2027-2032) & (Kilotons)

Table 8. World Alkali-Free Glass Fiber Twisted Yarn Production Market Share by Region (2021-2026)

Table 9. World Alkali-Free Glass Fiber Twisted Yarn Production Market Share by Region (2027-2032)

Table 10. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Alkali-Free Glass Fiber Twisted Yarn Major Market Trends

Table 13. World Alkali-Free Glass Fiber Twisted Yarn Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Alkali-Free Glass Fiber Twisted Yarn Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Alkali-Free Glass Fiber Twisted Yarn Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Alkali-Free Glass Fiber Twisted Yarn Producers in 2025

Table 18. World Alkali-Free Glass Fiber Twisted Yarn Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Alkali-Free Glass Fiber Twisted Yarn Producers in 2025

Table 20. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Alkali-Free Glass Fiber Twisted Yarn Company Evaluation Quadrant

Table 22. World Alkali-Free Glass Fiber Twisted Yarn Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Alkali-Free Glass Fiber Twisted Yarn Production Site of Key Manufacturer

Table 24. Alkali-Free Glass Fiber Twisted Yarn Market: Company Product Type Footprint

Table 25. Alkali-Free Glass Fiber Twisted Yarn Market: Company Product Application Footprint

Table 26. Alkali-Free Glass Fiber Twisted Yarn Competitive Factors

Table 27. Alkali-Free Glass Fiber Twisted Yarn New Entrant and Capacity Expansion Plans

Table 28. Alkali-Free Glass Fiber Twisted Yarn Mergers & Acquisitions Activity

Table 29. United States VS China Alkali-Free Glass Fiber Twisted Yarn Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Alkali-Free Glass Fiber Twisted Yarn Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Alkali-Free Glass Fiber Twisted Yarn Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Market Share (2021-2026)

Table 37. China Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Market Share (2021-2026)

Table 42. Rest of World Based Alkali-Free Glass Fiber Twisted Yarn Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Market Share (2021-2026)

Table 47. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Alkali-Free Glass Fiber Twisted Yarn Production by Type (2021-2026) & (Kilotons)

Table 49. World Alkali-Free Glass Fiber Twisted Yarn Production by Type (2027-2032) & (Kilotons)

Table 50. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Type (2021-2026) & (USD Million)

Table 51. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Type (2027-2032) & (USD Million)

Table 52. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Twist Level, (USD Million), 2021 & 2025 & 2032

Table 55. World Alkali-Free Glass Fiber Twisted Yarn Production by Twist Level (2021-2026) & (Kilotons)

Table 56. World Alkali-Free Glass Fiber Twisted Yarn Production by Twist Level (2027-2032) & (Kilotons)

Table 57. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Twist Level (2021-2026) & (USD Million)

Table 58. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Twist Level (2027-2032) & (USD Million)

Table 59. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Twist Level

(2021-2026) & (US\$/kg)

Table 60. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Twist Level

(2027-2032) & (US\$/kg)

Table 61. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Connection Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Alkali-Free Glass Fiber Twisted Yarn Production by Connection Method (2021-2026) & (Kilotons)

Table 63. World Alkali-Free Glass Fiber Twisted Yarn Production by Connection Method (2027-2032) & (Kilotons)

Table 64. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Connection Method (2021-2026) & (USD Million)

Table 65. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Connection Method (2027-2032) & (USD Million)

Table 66. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Connection Method (2021-2026) & (US\$/kg)

Table 67. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Connection Method (2027-2032) & (US\$/kg)

Table 68. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Alkali-Free Glass Fiber Twisted Yarn Production by Application (2021-2026) & (Kilotons)

Table 70. World Alkali-Free Glass Fiber Twisted Yarn Production by Application (2027-2032) & (Kilotons)

Table 71. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Application (2021-2026) & (USD Million)

Table 72. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Application (2027-2032) & (USD Million)

Table 73. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Application (2027-2032) & (US\$/kg)

Table 75. Nippon Electric Glass Basic Information, Manufacturing Base and Competitors

Table 76. Nippon Electric Glass Major Business

Table 77. Nippon Electric Glass Alkali-Free Glass Fiber Twisted Yarn Product and Services

Table 78. Nippon Electric Glass Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nippon Electric Glass Recent Developments/Updates
Table 80. Nippon Electric Glass Competitive Strengths & Weaknesses
Table 81. Owens Corning Basic Information, Manufacturing Base and Competitors
Table 82. Owens Corning Major Business
Table 83. Owens Corning Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 84. Owens Corning Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Owens Corning Recent Developments/Updates
Table 86. Owens Corning Competitive Strengths & Weaknesses
Table 87. Saint-Gobain Basic Information, Manufacturing Base and Competitors
Table 88. Saint-Gobain Major Business
Table 89. Saint-Gobain Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 90. Saint-Gobain Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Saint-Gobain Recent Developments/Updates
Table 92. Saint-Gobain Competitive Strengths & Weaknesses
Table 93. Jushi Group Basic Information, Manufacturing Base and Competitors
Table 94. Jushi Group Major Business
Table 95. Jushi Group Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 96. Jushi Group Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Jushi Group Recent Developments/Updates
Table 98. Jushi Group Competitive Strengths & Weaknesses
Table 99. Taishan Fiberglass Basic Information, Manufacturing Base and Competitors
Table 100. Taishan Fiberglass Major Business
Table 101. Taishan Fiberglass Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 102. Taishan Fiberglass Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Taishan Fiberglass Recent Developments/Updates
Table 104. Taishan Fiberglass Competitive Strengths & Weaknesses
Table 105. CPIC Basic Information, Manufacturing Base and Competitors
Table 106. CPIC Major Business
Table 107. CPIC Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 108. CPIC Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. CPIC Recent Developments/Updates
Table 110. CPIC Competitive Strengths & Weaknesses
Table 111. Johns Mansville Basic Information, Manufacturing Base and Competitors
Table 112. Johns Mansville Major Business
Table 113. Johns Mansville Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 114. Johns Mansville Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Johns Mansville Recent Developments/Updates
Table 116. Johns Mansville Competitive Strengths & Weaknesses
Table 117. Nittobo Basic Information, Manufacturing Base and Competitors
Table 118. Nittobo Major Business
Table 119. Nittobo Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 120. Nittobo Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Nittobo Recent Developments/Updates
Table 122. Nittobo Competitive Strengths & Weaknesses
Table 123. AGY Holding Corp Basic Information, Manufacturing Base and Competitors
Table 124. AGY Holding Corp Major Business
Table 125. AGY Holding Corp Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 126. AGY Holding Corp Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. AGY Holding Corp Recent Developments/Updates
Table 128. AGY Holding Corp Competitive Strengths & Weaknesses
Table 129. Chomarat Basic Information, Manufacturing Base and Competitors
Table 130. Chomarat Major Business
Table 131. Chomarat Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 132. Chomarat Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Chomarat Recent Developments/Updates
Table 134. Chomarat Competitive Strengths & Weaknesses
Table 135. Huayuan New Materials Basic Information, Manufacturing Base and Competitors
Table 136. Huayuan New Materials Major Business
Table 137. Huayuan New Materials Alkali-Free Glass Fiber Twisted Yarn Product and Services
Table 138. Huayuan New Materials Alkali-Free Glass Fiber Twisted Yarn Production

(Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Huayuan New Materials Recent Developments/Updates

Table 140. Huayuan New Materials Competitive Strengths & Weaknesses

Table 141. Huierjie Basic Information, Manufacturing Base and Competitors

Table 142. Huierjie Major Business

Table 143. Huierjie Alkali-Free Glass Fiber Twisted Yarn Product and Services

Table 144. Huierjie Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Huierjie Recent Developments/Updates

Table 146. Huierjie Competitive Strengths & Weaknesses

Table 147. Nankang Luobian Fiberglass Basic Information, Manufacturing Base and Competitors

Table 148. Nankang Luobian Fiberglass Major Business

Table 149. Nankang Luobian Fiberglass Alkali-Free Glass Fiber Twisted Yarn Product and Services

Table 150. Nankang Luobian Fiberglass Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Nankang Luobian Fiberglass Recent Developments/Updates

Table 152. Nankang Luobian Fiberglass Competitive Strengths & Weaknesses

Table 153. Ganzhou Guangjian Fiberglass Basic Information, Manufacturing Base and Competitors

Table 154. Ganzhou Guangjian Fiberglass Major Business

Table 155. Ganzhou Guangjian Fiberglass Alkali-Free Glass Fiber Twisted Yarn Product and Services

Table 156. Ganzhou Guangjian Fiberglass Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Ganzhou Guangjian Fiberglass Recent Developments/Updates

Table 158. Ganzhou Guangjian Fiberglass Competitive Strengths & Weaknesses

Table 159. Shangyou Yanhu Glass Fiber Basic Information, Manufacturing Base and Competitors

Table 160. Shangyou Yanhu Glass Fiber Major Business

Table 161. Shangyou Yanhu Glass Fiber Alkali-Free Glass Fiber Twisted Yarn Product and Services

Table 162. Shangyou Yanhu Glass Fiber Alkali-Free Glass Fiber Twisted Yarn Production (Kilotons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Shangyou Yanhu Glass Fiber Recent Developments/Updates

Table 164. Shangyou Yanhu Glass Fiber Competitive Strengths & Weaknesses

Table 165. Global Key Players of Alkali-Free Glass Fiber Twisted Yarn Upstream (Raw Materials)

Table 166. Global Alkali-Free Glass Fiber Twisted Yarn Typical Customers

Table 167. Alkali-Free Glass Fiber Twisted Yarn Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Alkali-Free Glass Fiber Twisted Yarn Picture
- Figure 2. World Alkali-Free Glass Fiber Twisted Yarn Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Alkali-Free Glass Fiber Twisted Yarn Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032) & (Kilotons)
- Figure 5. World Alkali-Free Glass Fiber Twisted Yarn Average Price (2021-2032) & (US\$/kg)
- Figure 6. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Region (2021-2032)
- Figure 7. World Alkali-Free Glass Fiber Twisted Yarn Production Market Share by Region (2021-2032)
- Figure 8. North America Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032) & (Kilotons)
- Figure 9. Europe Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032) & (Kilotons)
- Figure 10. China Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032) & (Kilotons)
- Figure 11. Japan Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032) & (Kilotons)
- Figure 12. India Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032) & (Kilotons)
- Figure 13. Southeast Asia Alkali-Free Glass Fiber Twisted Yarn Production (2021-2032) & (Kilotons)
- Figure 14. Alkali-Free Glass Fiber Twisted Yarn Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032) & (Kilotons)
- Figure 17. World Alkali-Free Glass Fiber Twisted Yarn Consumption Market Share by Region (2021-2032)
- Figure 18. United States Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032) & (Kilotons)
- Figure 19. China Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032) & (Kilotons)

Figure 20. Europe Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032) & (Kilotons)

Figure 21. Japan Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032) & (Kilotons)

Figure 22. South Korea Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032) & (Kilotons)

Figure 23. ASEAN Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032) & (Kilotons)

Figure 24. India Alkali-Free Glass Fiber Twisted Yarn Consumption (2021-2032) & (Kilotons)

Figure 25. Producer Shipments of Alkali-Free Glass Fiber Twisted Yarn by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Alkali-Free Glass Fiber Twisted Yarn Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Alkali-Free Glass Fiber Twisted Yarn Markets in 2025

Figure 28. United States VS China: Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Alkali-Free Glass Fiber Twisted Yarn Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Alkali-Free Glass Fiber Twisted Yarn Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Market Share 2025

Figure 32. China Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Alkali-Free Glass Fiber Twisted Yarn Production Market Share 2025

Figure 34. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Type in 2025

Figure 36. Single-Ply Twisted Yarn

Figure 37. Multi-Ply Twisted Yarn

Figure 38. World Alkali-Free Glass Fiber Twisted Yarn Production Market Share by Type (2021-2032)

Figure 39. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Type (2021-2032)

Figure 40. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Type

(2021-2032) & (US\$/kg)

Figure 41. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Twist Level, (USD Million), 2021 & 2025 & 2032

Figure 42. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Twist Level in 2025

Figure 43. 20-80 T/m

Figure 44. 80-200 T/m

Figure 45. >200 T/m

Figure 46. World Alkali-Free Glass Fiber Twisted Yarn Production Market Share by Twist Level (2021-2032)

Figure 47. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Twist Level (2021-2032)

Figure 48. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Twist Level (2021-2032) & (US\$/kg)

Figure 49. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Connection Method, (USD Million), 2021 & 2025 & 2032

Figure 50. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Connection Method in 2025

Figure 51. Braiding

Figure 52. Stranding

Figure 53. World Alkali-Free Glass Fiber Twisted Yarn Production Market Share by Connection Method (2021-2032)

Figure 54. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Connection Method (2021-2032)

Figure 55. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Connection Method (2021-2032) & (US\$/kg)

Figure 56. World Alkali-Free Glass Fiber Twisted Yarn Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Application in 2025

Figure 58. Electronics & Electrical

Figure 59. Wind Power

Figure 60. Construction

Figure 61. Transportation

Figure 62. Others

Figure 63. World Alkali-Free Glass Fiber Twisted Yarn Production Market Share by Application (2021-2032)

Figure 64. World Alkali-Free Glass Fiber Twisted Yarn Production Value Market Share by Application (2021-2032)

Figure 65. World Alkali-Free Glass Fiber Twisted Yarn Average Price by Application (2021-2032) & (US\$/kg)

Figure 66. Alkali-Free Glass Fiber Twisted Yarn Industry Chain

Figure 67. Alkali-Free Glass Fiber Twisted Yarn Procurement Model

Figure 68. Alkali-Free Glass Fiber Twisted Yarn Sales Model

Figure 69. Alkali-Free Glass Fiber Twisted Yarn Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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