

# Global FRP Central Strength Member (CSM) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4F7CA44DE8AEN.html>

Date: June 2026

Pages: 144

Price: US\$ 4,480.00 (Single User License)

ID: G4F7CA44DE8AEN

## Abstracts

The global FRP Central Strength Member (CSM) market size is expected to reach \$ 415 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

FRP Central Strength Member (CSM) for fiber optic cables are non-metallic load-bearing rods made from a resin matrix reinforced with continuous fibers. They mainly include GFRP, reinforced with glass fiber, and KFRP, reinforced with aramid fiber. These rods are used as central or embedded strength members in optical fiber cables to provide tensile strength, bending resistance, electrical insulation, corrosion resistance, and dimensional stability.

**Market Size:** In 2025, global production of FRP Central Strength Member (CSM) reached 35.90 million kilometers, with an average selling price of US\$7.5 per kilometer and total production capacity of approximately 45.00 million kilometers. **Gross Margin:** The industry gross margin is approximately 20%–30%. **Cost Structure:** Direct materials account for approximately 60%–75%, manufacturing overhead accounts for approximately 15%–25%, and labor costs account for approximately 5%–10%. **Industry Chain:** The upstream includes glass fiber yarn, aramid fiber/aramid yarn, epoxy resin/unsaturated resin, curing agents, coating materials, and other raw materials, while the downstream consists of fiber optic cable manufacturers.

The development of the global FRP Central Strength Member (CSM) market is fundamentally driven by the long-term rigid demand for global communication infrastructure construction. Broadband network upgrades and large-scale deployment of new-generation communication technologies led by governments worldwide form continuous demand transmission across the industrial chain, laying solid fundamental

support for market growth. With performance advantages from its material properties, FRP CSM replaces traditional material products in complex application scenarios, with its application scope expanding from civil communication backbone and access networks to private communication networks in multiple industries, continuously broadening the market's long-term growth boundary. The regional layout trend of the global industrial chain, coupled with technological iteration and production capacity support at the raw material end, directly affects the market supply pattern. Stable raw material supply and mature large-scale production capacity are key for market participants to build core competitiveness. Changes in the global trade environment improve regional industrial chain supporting systems, reshaping the market's regional competitive landscape. Meanwhile, the continuous upgrading of technical standards and environmental compliance requirements in the global communication industry drives product technology iteration, and products meeting higher standards and compliance rules become the core direction of market development, further raising the industry's overall competitive threshold.

This report studies the global FRP Central Strength Member (CSM) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for FRP Central Strength Member (CSM) 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 FRP Central Strength Member (CSM) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global FRP Central Strength Member (CSM) total production and demand, 2021-2032, (K Km)

Global FRP Central Strength Member (CSM) total production value, 2021-2032, (USD Million)

Global FRP Central Strength Member (CSM) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Km), (based on production site)

Global FRP Central Strength Member (CSM) consumption by region & country, CAGR, 2021-2032 & (K Km)

U.S. VS China: FRP Central Strength Member (CSM) domestic production, consumption, key domestic manufacturers and share

Global FRP Central Strength Member (CSM) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Km)

Global FRP Central Strength Member (CSM) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Km)

Global FRP Central Strength Member (CSM) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Km)

This report profiles key players in the global FRP Central Strength Member (CSM) 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 Coats, Fiber-Line (Avient), IMG LLC, Runaya, Shresht Group, HTL Ltd, Roblon, JRD Fibre Composite, Polycab Telecom, Aksh OptiFibre, 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 FRP Central Strength Member (CSM) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Km) and average price (US\$/K Meter) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global FRP Central Strength Member (CSM) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global FRP Central Strength Member (CSM) Market, Segmentation by Type:

GFRP Strength Member

KFRP Strength Member

Global FRP Central Strength Member (CSM) Market, Segmentation by Diameter:

Diameter 5mm

Global FRP Central Strength Member (CSM) Market, Segmentation by Application:

Electric Power

Telecommunications

Rail Transit

Others

Companies Profiled:

Coats

Fiber-Line (Avient)

IMG LLC

Runaya

Shresht Group

HTL Ltd

Roblon

JRD Fibre Composite

Polycab Telecom

Aksh OptiFibre

Jiangsu Hongbo Communication Technology

Nantong Hetai Communication Technology

PZTEST

Nantong Siber Communication

Jiangsu WELL-KNOWN

Changsha Longyuan Optical Communication Special Materials

Jiangsu Kemaite Technology Development

Shanghai Xiaobao FRP

#### Key Questions Answered:

1. How big is the global FRP Central Strength Member (CSM) market?
2. What is the demand of the global FRP Central Strength Member (CSM) market?
3. What is the year over year growth of the global FRP Central Strength Member (CSM) market?
4. What is the production and production value of the global FRP Central Strength Member (CSM) market?
5. Who are the key producers in the global FRP Central Strength Member (CSM) market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 FRP Central Strength Member (CSM) Introduction
- 1.2 World FRP Central Strength Member (CSM) Supply & Forecast
  - 1.2.1 World FRP Central Strength Member (CSM) Production Value (2021 & 2025 & 2032)
  - 1.2.2 World FRP Central Strength Member (CSM) Production (2021-2032)
  - 1.2.3 World FRP Central Strength Member (CSM) Pricing Trends (2021-2032)
- 1.3 World FRP Central Strength Member (CSM) Production by Region (Based on Production Site)
  - 1.3.1 World FRP Central Strength Member (CSM) Production Value by Region (2021-2032)
  - 1.3.2 World FRP Central Strength Member (CSM) Production by Region (2021-2032)
  - 1.3.3 World FRP Central Strength Member (CSM) Average Price by Region (2021-2032)
  - 1.3.4 North America FRP Central Strength Member (CSM) Production (2021-2032)
  - 1.3.5 Europe FRP Central Strength Member (CSM) Production (2021-2032)
  - 1.3.6 China FRP Central Strength Member (CSM) Production (2021-2032)
  - 1.3.7 India FRP Central Strength Member (CSM) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 FRP Central Strength Member (CSM) Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 FRP Central Strength Member (CSM) Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World FRP Central Strength Member (CSM) Demand (2021-2032)
- 2.2 World FRP Central Strength Member (CSM) Consumption by Region
  - 2.2.1 World FRP Central Strength Member (CSM) Consumption by Region (2021-2026)
  - 2.2.2 World FRP Central Strength Member (CSM) Consumption Forecast by Region (2027-2032)
- 2.3 United States FRP Central Strength Member (CSM) Consumption (2021-2032)
- 2.4 China FRP Central Strength Member (CSM) Consumption (2021-2032)
- 2.5 Europe FRP Central Strength Member (CSM) Consumption (2021-2032)
- 2.6 Japan FRP Central Strength Member (CSM) Consumption (2021-2032)
- 2.7 South Korea FRP Central Strength Member (CSM) Consumption (2021-2032)

- 2.8 ASEAN FRP Central Strength Member (CSM) Consumption (2021-2032)
- 2.9 India FRP Central Strength Member (CSM) Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World FRP Central Strength Member (CSM) Production Value by Manufacturer (2021-2026)
- 3.2 World FRP Central Strength Member (CSM) Production by Manufacturer (2021-2026)
- 3.3 World FRP Central Strength Member (CSM) Average Price by Manufacturer (2021-2026)
- 3.4 FRP Central Strength Member (CSM) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global FRP Central Strength Member (CSM) Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for FRP Central Strength Member (CSM) in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for FRP Central Strength Member (CSM) in 2025
- 3.6 FRP Central Strength Member (CSM) Market: Overall Company Footprint Analysis
  - 3.6.1 FRP Central Strength Member (CSM) Market: Region Footprint
  - 3.6.2 FRP Central Strength Member (CSM) Market: Company Product Type Footprint
  - 3.6.3 FRP Central Strength Member (CSM) 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: FRP Central Strength Member (CSM) Production Value Comparison
  - 4.1.1 United States VS China: FRP Central Strength Member (CSM) Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: FRP Central Strength Member (CSM) Production Value Market Share Comparison (2021 & 2025 & 2032)

#### 4.2 United States VS China: FRP Central Strength Member (CSM) Production Comparison

4.2.1 United States VS China: FRP Central Strength Member (CSM) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: FRP Central Strength Member (CSM) Production Market Share Comparison (2021 & 2025 & 2032)

#### 4.3 United States VS China: FRP Central Strength Member (CSM) Consumption Comparison

4.3.1 United States VS China: FRP Central Strength Member (CSM) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: FRP Central Strength Member (CSM) Consumption Market Share Comparison (2021 & 2025 & 2032)

#### 4.4 United States Based FRP Central Strength Member (CSM) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based FRP Central Strength Member (CSM) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers FRP Central Strength Member (CSM) Production Value (2021-2026)

4.4.3 United States Based Manufacturers FRP Central Strength Member (CSM) Production (2021-2026)

#### 4.5 China Based FRP Central Strength Member (CSM) Manufacturers and Market Share

4.5.1 China Based FRP Central Strength Member (CSM) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers FRP Central Strength Member (CSM) Production Value (2021-2026)

4.5.3 China Based Manufacturers FRP Central Strength Member (CSM) Production (2021-2026)

#### 4.6 Rest of World Based FRP Central Strength Member (CSM) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based FRP Central Strength Member (CSM) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers FRP Central Strength Member (CSM) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers FRP Central Strength Member (CSM) Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World FRP Central Strength Member (CSM) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 GFRP Strength Member

5.2.2 KFRP Strength Member

5.3 Market Segment by Type

5.3.1 World FRP Central Strength Member (CSM) Production by Type (2021-2032)

5.3.2 World FRP Central Strength Member (CSM) Production Value by Type (2021-2032)

5.3.3 World FRP Central Strength Member (CSM) Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY DIAMETER**

6.1 World FRP Central Strength Member (CSM) Market Size Overview by Diameter: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Diameter

6.2.1 Diameter 5mm

6.3 Market Segment by Diameter

6.3.1 World FRP Central Strength Member (CSM) Production by Diameter (2021-2032)

6.3.2 World FRP Central Strength Member (CSM) Production Value by Diameter (2021-2032)

6.3.3 World FRP Central Strength Member (CSM) Average Price by Diameter (2021-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

7.1 World FRP Central Strength Member (CSM) Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Electric Power

7.2.2 Telecommunications

7.2.3 Rail Transit

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World FRP Central Strength Member (CSM) Production by Application (2021-2032)

7.3.2 World FRP Central Strength Member (CSM) Production Value by Application (2021-2032)

7.3.3 World FRP Central Strength Member (CSM) Average Price by Application (2021-2032)

## **8 COMPANY PROFILES**

### 8.1 Coats

8.1.1 Coats Details

8.1.2 Coats Major Business

8.1.3 Coats FRP Central Strength Member (CSM) Product and Services

8.1.4 Coats FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Coats Recent Developments/Updates

8.1.6 Coats Competitive Strengths & Weaknesses

### 8.2 Fiber-Line (Avient)

8.2.1 Fiber-Line (Avient) Details

8.2.2 Fiber-Line (Avient) Major Business

8.2.3 Fiber-Line (Avient) FRP Central Strength Member (CSM) Product and Services

8.2.4 Fiber-Line (Avient) FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Fiber-Line (Avient) Recent Developments/Updates

8.2.6 Fiber-Line (Avient) Competitive Strengths & Weaknesses

### 8.3 IMG LLC

8.3.1 IMG LLC Details

8.3.2 IMG LLC Major Business

8.3.3 IMG LLC FRP Central Strength Member (CSM) Product and Services

8.3.4 IMG LLC FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 IMG LLC Recent Developments/Updates

8.3.6 IMG LLC Competitive Strengths & Weaknesses

### 8.4 Runaya

8.4.1 Runaya Details

8.4.2 Runaya Major Business

8.4.3 Runaya FRP Central Strength Member (CSM) Product and Services

8.4.4 Runaya FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Runaya Recent Developments/Updates

8.4.6 Runaya Competitive Strengths & Weaknesses

### 8.5 Shresht Group

8.5.1 Shresht Group Details

- 8.5.2 Shresht Group Major Business
- 8.5.3 Shresht Group FRP Central Strength Member (CSM) Product and Services
- 8.5.4 Shresht Group FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.5.5 Shresht Group Recent Developments/Updates
- 8.5.6 Shresht Group Competitive Strengths & Weaknesses
- 8.6 HTL Ltd
  - 8.6.1 HTL Ltd Details
  - 8.6.2 HTL Ltd Major Business
  - 8.6.3 HTL Ltd FRP Central Strength Member (CSM) Product and Services
  - 8.6.4 HTL Ltd FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.6.5 HTL Ltd Recent Developments/Updates
  - 8.6.6 HTL Ltd Competitive Strengths & Weaknesses
- 8.7 Roblon
  - 8.7.1 Roblon Details
  - 8.7.2 Roblon Major Business
  - 8.7.3 Roblon FRP Central Strength Member (CSM) Product and Services
  - 8.7.4 Roblon FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.7.5 Roblon Recent Developments/Updates
  - 8.7.6 Roblon Competitive Strengths & Weaknesses
- 8.8 JRD Fibre Composite
  - 8.8.1 JRD Fibre Composite Details
  - 8.8.2 JRD Fibre Composite Major Business
  - 8.8.3 JRD Fibre Composite FRP Central Strength Member (CSM) Product and Services
  - 8.8.4 JRD Fibre Composite FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.8.5 JRD Fibre Composite Recent Developments/Updates
  - 8.8.6 JRD Fibre Composite Competitive Strengths & Weaknesses
- 8.9 Polycab Telecom
  - 8.9.1 Polycab Telecom Details
  - 8.9.2 Polycab Telecom Major Business
  - 8.9.3 Polycab Telecom FRP Central Strength Member (CSM) Product and Services
  - 8.9.4 Polycab Telecom FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.9.5 Polycab Telecom Recent Developments/Updates
  - 8.9.6 Polycab Telecom Competitive Strengths & Weaknesses

## 8.10 Aksh OptiFibre

### 8.10.1 Aksh OptiFibre Details

### 8.10.2 Aksh OptiFibre Major Business

### 8.10.3 Aksh OptiFibre FRP Central Strength Member (CSM) Product and Services

### 8.10.4 Aksh OptiFibre FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.10.5 Aksh OptiFibre Recent Developments/Updates

### 8.10.6 Aksh OptiFibre Competitive Strengths & Weaknesses

## 8.11 Jiangsu Hongbo Communication Technology

### 8.11.1 Jiangsu Hongbo Communication Technology Details

### 8.11.2 Jiangsu Hongbo Communication Technology Major Business

### 8.11.3 Jiangsu Hongbo Communication Technology FRP Central Strength Member (CSM) Product and Services

### 8.11.4 Jiangsu Hongbo Communication Technology FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.11.5 Jiangsu Hongbo Communication Technology Recent Developments/Updates

### 8.11.6 Jiangsu Hongbo Communication Technology Competitive Strengths & Weaknesses

## 8.12 Nantong Hetai Communication Technology

### 8.12.1 Nantong Hetai Communication Technology Details

### 8.12.2 Nantong Hetai Communication Technology Major Business

### 8.12.3 Nantong Hetai Communication Technology FRP Central Strength Member (CSM) Product and Services

### 8.12.4 Nantong Hetai Communication Technology FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.12.5 Nantong Hetai Communication Technology Recent Developments/Updates

### 8.12.6 Nantong Hetai Communication Technology Competitive Strengths & Weaknesses

## 8.13 PZTEST

### 8.13.1 PZTEST Details

### 8.13.2 PZTEST Major Business

### 8.13.3 PZTEST FRP Central Strength Member (CSM) Product and Services

### 8.13.4 PZTEST FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.13.5 PZTEST Recent Developments/Updates

### 8.13.6 PZTEST Competitive Strengths & Weaknesses

## 8.14 Nantong Siber Communication

### 8.14.1 Nantong Siber Communication Details

### 8.14.2 Nantong Siber Communication Major Business

8.14.3 Nantong Siber Communication FRP Central Strength Member (CSM) Product and Services

8.14.4 Nantong Siber Communication FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Nantong Siber Communication Recent Developments/Updates

8.14.6 Nantong Siber Communication Competitive Strengths & Weaknesses

8.15 Jiangsu WELL-KNOWN

8.15.1 Jiangsu WELL-KNOWN Details

8.15.2 Jiangsu WELL-KNOWN Major Business

8.15.3 Jiangsu WELL-KNOWN FRP Central Strength Member (CSM) Product and Services

8.15.4 Jiangsu WELL-KNOWN FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 Jiangsu WELL-KNOWN Recent Developments/Updates

8.15.6 Jiangsu WELL-KNOWN Competitive Strengths & Weaknesses

8.16 Changsha Longyuan Optical Communication Special Materials

8.16.1 Changsha Longyuan Optical Communication Special Materials Details

8.16.2 Changsha Longyuan Optical Communication Special Materials Major Business

8.16.3 Changsha Longyuan Optical Communication Special Materials FRP Central Strength Member (CSM) Product and Services

8.16.4 Changsha Longyuan Optical Communication Special Materials FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 Changsha Longyuan Optical Communication Special Materials Recent Developments/Updates

8.16.6 Changsha Longyuan Optical Communication Special Materials Competitive Strengths & Weaknesses

8.17 Jiangsu Kemaite Technology Development

8.17.1 Jiangsu Kemaite Technology Development Details

8.17.2 Jiangsu Kemaite Technology Development Major Business

8.17.3 Jiangsu Kemaite Technology Development FRP Central Strength Member (CSM) Product and Services

8.17.4 Jiangsu Kemaite Technology Development FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.17.5 Jiangsu Kemaite Technology Development Recent Developments/Updates

8.17.6 Jiangsu Kemaite Technology Development Competitive Strengths & Weaknesses

8.18 Shanghai Xiaobao FRP

8.18.1 Shanghai Xiaobao FRP Details

- 8.18.2 Shanghai Xiaobao FRP Major Business
- 8.18.3 Shanghai Xiaobao FRP FRP Central Strength Member (CSM) Product and Services
- 8.18.4 Shanghai Xiaobao FRP FRP Central Strength Member (CSM) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.18.5 Shanghai Xiaobao FRP Recent Developments/Updates
- 8.18.6 Shanghai Xiaobao FRP Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

- 9.1 FRP Central Strength Member (CSM) Industry Chain
- 9.2 FRP Central Strength Member (CSM) Upstream Analysis
  - 9.2.1 FRP Central Strength Member (CSM) Core Raw Materials
  - 9.2.2 Main Manufacturers of FRP Central Strength Member (CSM) Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 FRP Central Strength Member (CSM) Production Mode
- 9.6 FRP Central Strength Member (CSM) Procurement Model
- 9.7 FRP Central Strength Member (CSM) Industry Sales Model and Sales Channels
  - 9.7.1 FRP Central Strength Member (CSM) Sales Model
  - 9.7.2 FRP Central Strength Member (CSM) Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World FRP Central Strength Member (CSM) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World FRP Central Strength Member (CSM) Production Value by Region (2021-2026) & (USD Million)

Table 3. World FRP Central Strength Member (CSM) Production Value by Region (2027-2032) & (USD Million)

Table 4. World FRP Central Strength Member (CSM) Production Value Market Share by Region (2021-2026)

Table 5. World FRP Central Strength Member (CSM) Production Value Market Share by Region (2027-2032)

Table 6. World FRP Central Strength Member (CSM) Production by Region (2021-2026) & (K Km)

Table 7. World FRP Central Strength Member (CSM) Production by Region (2027-2032) & (K Km)

Table 8. World FRP Central Strength Member (CSM) Production Market Share by Region (2021-2026)

Table 9. World FRP Central Strength Member (CSM) Production Market Share by Region (2027-2032)

Table 10. World FRP Central Strength Member (CSM) Average Price by Region (2021-2026) & (US\$/K Meter)

Table 11. World FRP Central Strength Member (CSM) Average Price by Region (2027-2032) & (US\$/K Meter)

Table 12. FRP Central Strength Member (CSM) Major Market Trends

Table 13. World FRP Central Strength Member (CSM) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Km)

Table 14. World FRP Central Strength Member (CSM) Consumption by Region (2021-2026) & (K Km)

Table 15. World FRP Central Strength Member (CSM) Consumption Forecast by Region (2027-2032) & (K Km)

Table 16. World FRP Central Strength Member (CSM) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key FRP Central Strength Member (CSM) Producers in 2025

Table 18. World FRP Central Strength Member (CSM) Production by Manufacturer (2021-2026) & (K Km)

Table 19. Production Market Share of Key FRP Central Strength Member (CSM) Producers in 2025

Table 20. World FRP Central Strength Member (CSM) Average Price by Manufacturer (2021-2026) & (US\$/K Meter)

Table 21. Global FRP Central Strength Member (CSM) Company Evaluation Quadrant

Table 22. World FRP Central Strength Member (CSM) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and FRP Central Strength Member (CSM) Production Site of Key Manufacturer

Table 24. FRP Central Strength Member (CSM) Market: Company Product Type Footprint

Table 25. FRP Central Strength Member (CSM) Market: Company Product Application Footprint

Table 26. FRP Central Strength Member (CSM) Competitive Factors

Table 27. FRP Central Strength Member (CSM) New Entrant and Capacity Expansion Plans

Table 28. FRP Central Strength Member (CSM) Mergers & Acquisitions Activity

Table 29. United States VS China FRP Central Strength Member (CSM) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China FRP Central Strength Member (CSM) Production Comparison, (2021 & 2025 & 2032) & (K Km)

Table 31. United States VS China FRP Central Strength Member (CSM) Consumption Comparison, (2021 & 2025 & 2032) & (K Km)

Table 32. United States Based FRP Central Strength Member (CSM) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers FRP Central Strength Member (CSM) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers FRP Central Strength Member (CSM) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers FRP Central Strength Member (CSM) Production (2021-2026) & (K Km)

Table 36. United States Based Manufacturers FRP Central Strength Member (CSM) Production Market Share (2021-2026)

Table 37. China Based FRP Central Strength Member (CSM) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers FRP Central Strength Member (CSM) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers FRP Central Strength Member (CSM) Production Value Market Share (2021-2026)

- Table 40. China Based Manufacturers FRP Central Strength Member (CSM) Production, (2021-2026) & (K Km)
- Table 41. China Based Manufacturers FRP Central Strength Member (CSM) Production Market Share (2021-2026)
- Table 42. Rest of World Based FRP Central Strength Member (CSM) Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers FRP Central Strength Member (CSM) Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers FRP Central Strength Member (CSM) Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers FRP Central Strength Member (CSM) Production, (2021-2026) & (K Km)
- Table 46. Rest of World Based Manufacturers FRP Central Strength Member (CSM) Production Market Share (2021-2026)
- Table 47. World FRP Central Strength Member (CSM) Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World FRP Central Strength Member (CSM) Production by Type (2021-2026) & (K Km)
- Table 49. World FRP Central Strength Member (CSM) Production by Type (2027-2032) & (K Km)
- Table 50. World FRP Central Strength Member (CSM) Production Value by Type (2021-2026) & (USD Million)
- Table 51. World FRP Central Strength Member (CSM) Production Value by Type (2027-2032) & (USD Million)
- Table 52. World FRP Central Strength Member (CSM) Average Price by Type (2021-2026) & (US\$/K Meter)
- Table 53. World FRP Central Strength Member (CSM) Average Price by Type (2027-2032) & (US\$/K Meter)
- Table 54. World FRP Central Strength Member (CSM) Production Value by Diameter, (USD Million), 2021 & 2025 & 2032
- Table 55. World FRP Central Strength Member (CSM) Production by Diameter (2021-2026) & (K Km)
- Table 56. World FRP Central Strength Member (CSM) Production by Diameter (2027-2032) & (K Km)
- Table 57. World FRP Central Strength Member (CSM) Production Value by Diameter (2021-2026) & (USD Million)
- Table 58. World FRP Central Strength Member (CSM) Production Value by Diameter (2027-2032) & (USD Million)
- Table 59. World FRP Central Strength Member (CSM) Average Price by Diameter

(2021-2026) & (US\$/K Meter)

Table 60. World FRP Central Strength Member (CSM) Average Price by Diameter

(2027-2032) & (US\$/K Meter)

Table 61. World FRP Central Strength Member (CSM) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World FRP Central Strength Member (CSM) Production by Application (2021-2026) & (K Km)

Table 63. World FRP Central Strength Member (CSM) Production by Application (2027-2032) & (K Km)

Table 64. World FRP Central Strength Member (CSM) Production Value by Application (2021-2026) & (USD Million)

Table 65. World FRP Central Strength Member (CSM) Production Value by Application (2027-2032) & (USD Million)

Table 66. World FRP Central Strength Member (CSM) Average Price by Application (2021-2026) & (US\$/K Meter)

Table 67. World FRP Central Strength Member (CSM) Average Price by Application (2027-2032) & (US\$/K Meter)

Table 68. Coats Basic Information, Manufacturing Base and Competitors

Table 69. Coats Major Business

Table 70. Coats FRP Central Strength Member (CSM) Product and Services

Table 71. Coats FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Coats Recent Developments/Updates

Table 73. Coats Competitive Strengths & Weaknesses

Table 74. Fiber-Line (Avient) Basic Information, Manufacturing Base and Competitors

Table 75. Fiber-Line (Avient) Major Business

Table 76. Fiber-Line (Avient) FRP Central Strength Member (CSM) Product and Services

Table 77. Fiber-Line (Avient) FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Fiber-Line (Avient) Recent Developments/Updates

Table 79. Fiber-Line (Avient) Competitive Strengths & Weaknesses

Table 80. IMG LLC Basic Information, Manufacturing Base and Competitors

Table 81. IMG LLC Major Business

Table 82. IMG LLC FRP Central Strength Member (CSM) Product and Services

Table 83. IMG LLC FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 84. IMG LLC Recent Developments/Updates
- Table 85. IMG LLC Competitive Strengths & Weaknesses
- Table 86. Runaya Basic Information, Manufacturing Base and Competitors
- Table 87. Runaya Major Business
- Table 88. Runaya FRP Central Strength Member (CSM) Product and Services
- Table 89. Runaya FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Runaya Recent Developments/Updates
- Table 91. Runaya Competitive Strengths & Weaknesses
- Table 92. Shresht Group Basic Information, Manufacturing Base and Competitors
- Table 93. Shresht Group Major Business
- Table 94. Shresht Group FRP Central Strength Member (CSM) Product and Services
- Table 95. Shresht Group FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Shresht Group Recent Developments/Updates
- Table 97. Shresht Group Competitive Strengths & Weaknesses
- Table 98. HTL Ltd Basic Information, Manufacturing Base and Competitors
- Table 99. HTL Ltd Major Business
- Table 100. HTL Ltd FRP Central Strength Member (CSM) Product and Services
- Table 101. HTL Ltd FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. HTL Ltd Recent Developments/Updates
- Table 103. HTL Ltd Competitive Strengths & Weaknesses
- Table 104. Roblon Basic Information, Manufacturing Base and Competitors
- Table 105. Roblon Major Business
- Table 106. Roblon FRP Central Strength Member (CSM) Product and Services
- Table 107. Roblon FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Roblon Recent Developments/Updates
- Table 109. Roblon Competitive Strengths & Weaknesses
- Table 110. JRD Fibre Composite Basic Information, Manufacturing Base and Competitors
- Table 111. JRD Fibre Composite Major Business
- Table 112. JRD Fibre Composite FRP Central Strength Member (CSM) Product and Services

Table 113. JRD Fibre Composite FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. JRD Fibre Composite Recent Developments/Updates

Table 115. JRD Fibre Composite Competitive Strengths & Weaknesses

Table 116. Polycab Telecom Basic Information, Manufacturing Base and Competitors

Table 117. Polycab Telecom Major Business

Table 118. Polycab Telecom FRP Central Strength Member (CSM) Product and Services

Table 119. Polycab Telecom FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Polycab Telecom Recent Developments/Updates

Table 121. Polycab Telecom Competitive Strengths & Weaknesses

Table 122. Aksh OptiFibre Basic Information, Manufacturing Base and Competitors

Table 123. Aksh OptiFibre Major Business

Table 124. Aksh OptiFibre FRP Central Strength Member (CSM) Product and Services

Table 125. Aksh OptiFibre FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Aksh OptiFibre Recent Developments/Updates

Table 127. Aksh OptiFibre Competitive Strengths & Weaknesses

Table 128. Jiangsu Hongbo Communication Technology Basic Information, Manufacturing Base and Competitors

Table 129. Jiangsu Hongbo Communication Technology Major Business

Table 130. Jiangsu Hongbo Communication Technology FRP Central Strength Member (CSM) Product and Services

Table 131. Jiangsu Hongbo Communication Technology FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Jiangsu Hongbo Communication Technology Recent Developments/Updates

Table 133. Jiangsu Hongbo Communication Technology Competitive Strengths & Weaknesses

Table 134. Nantong Hetai Communication Technology Basic Information, Manufacturing Base and Competitors

Table 135. Nantong Hetai Communication Technology Major Business

Table 136. Nantong Hetai Communication Technology FRP Central Strength Member (CSM) Product and Services

- Table 137. Nantong Hetai Communication Technology FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 138. Nantong Hetai Communication Technology Recent Developments/Updates
- Table 139. Nantong Hetai Communication Technology Competitive Strengths & Weaknesses
- Table 140. PZTEST Basic Information, Manufacturing Base and Competitors
- Table 141. PZTEST Major Business
- Table 142. PZTEST FRP Central Strength Member (CSM) Product and Services
- Table 143. PZTEST FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 144. PZTEST Recent Developments/Updates
- Table 145. PZTEST Competitive Strengths & Weaknesses
- Table 146. Nantong Siber Communication Basic Information, Manufacturing Base and Competitors
- Table 147. Nantong Siber Communication Major Business
- Table 148. Nantong Siber Communication FRP Central Strength Member (CSM) Product and Services
- Table 149. Nantong Siber Communication FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 150. Nantong Siber Communication Recent Developments/Updates
- Table 151. Nantong Siber Communication Competitive Strengths & Weaknesses
- Table 152. Jiangsu WELL-KNOWN Basic Information, Manufacturing Base and Competitors
- Table 153. Jiangsu WELL-KNOWN Major Business
- Table 154. Jiangsu WELL-KNOWN FRP Central Strength Member (CSM) Product and Services
- Table 155. Jiangsu WELL-KNOWN FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 156. Jiangsu WELL-KNOWN Recent Developments/Updates
- Table 157. Jiangsu WELL-KNOWN Competitive Strengths & Weaknesses
- Table 158. Changsha Longyuan Optical Communication Special Materials Basic Information, Manufacturing Base and Competitors
- Table 159. Changsha Longyuan Optical Communication Special Materials Major Business
- Table 160. Changsha Longyuan Optical Communication Special Materials FRP Central

Strength Member (CSM) Product and Services

Table 161. Changsha Longyuan Optical Communication Special Materials FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Changsha Longyuan Optical Communication Special Materials Recent Developments/Updates

Table 163. Changsha Longyuan Optical Communication Special Materials Competitive Strengths & Weaknesses

Table 164. Jiangsu Kemaite Technology Development Basic Information, Manufacturing Base and Competitors

Table 165. Jiangsu Kemaite Technology Development Major Business

Table 166. Jiangsu Kemaite Technology Development FRP Central Strength Member (CSM) Product and Services

Table 167. Jiangsu Kemaite Technology Development FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Jiangsu Kemaite Technology Development Recent Developments/Updates

Table 169. Jiangsu Kemaite Technology Development Competitive Strengths & Weaknesses

Table 170. Shanghai Xiaobao FRP Basic Information, Manufacturing Base and Competitors

Table 171. Shanghai Xiaobao FRP Major Business

Table 172. Shanghai Xiaobao FRP FRP Central Strength Member (CSM) Product and Services

Table 173. Shanghai Xiaobao FRP FRP Central Strength Member (CSM) Production (K Km), Price (US\$/K Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 174. Shanghai Xiaobao FRP Recent Developments/Updates

Table 175. Shanghai Xiaobao FRP Competitive Strengths & Weaknesses

Table 176. Global Key Players of FRP Central Strength Member (CSM) Upstream (Raw Materials)

Table 177. Global FRP Central Strength Member (CSM) Typical Customers

Table 178. FRP Central Strength Member (CSM) Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. FRP Central Strength Member (CSM) Picture

Figure 2. World FRP Central Strength Member (CSM) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World FRP Central Strength Member (CSM) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World FRP Central Strength Member (CSM) Production (2021-2032) & (K Km)

Figure 5. World FRP Central Strength Member (CSM) Average Price (2021-2032) & (US\$/K Meter)

Figure 6. World FRP Central Strength Member (CSM) Production Value Market Share by Region (2021-2032)

Figure 7. World FRP Central Strength Member (CSM) Production Market Share by Region (2021-2032)

Figure 8. North America FRP Central Strength Member (CSM) Production (2021-2032) & (K Km)

Figure 9. Europe FRP Central Strength Member (CSM) Production (2021-2032) & (K Km)

Figure 10. China FRP Central Strength Member (CSM) Production (2021-2032) & (K Km)

Figure 11. India FRP Central Strength Member (CSM) Production (2021-2032) & (K Km)

Figure 12. FRP Central Strength Member (CSM) Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World FRP Central Strength Member (CSM) Consumption (2021-2032) & (K Km)

Figure 15. World FRP Central Strength Member (CSM) Consumption Market Share by Region (2021-2032)

Figure 16. United States FRP Central Strength Member (CSM) Consumption (2021-2032) & (K Km)

Figure 17. China FRP Central Strength Member (CSM) Consumption (2021-2032) & (K Km)

Figure 18. Europe FRP Central Strength Member (CSM) Consumption (2021-2032) & (K Km)

Figure 19. Japan FRP Central Strength Member (CSM) Consumption (2021-2032) & (K Km)

Figure 20. South Korea FRP Central Strength Member (CSM) Consumption

(2021-2032) & (K Km)

Figure 21. ASEAN FRP Central Strength Member (CSM) Consumption (2021-2032) & (K Km)

Figure 22. India FRP Central Strength Member (CSM) Consumption (2021-2032) & (K Km)

Figure 23. Producer Shipments of FRP Central Strength Member (CSM) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for FRP Central Strength Member (CSM) Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for FRP Central Strength Member (CSM) Markets in 2025

Figure 26. United States VS China: FRP Central Strength Member (CSM) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: FRP Central Strength Member (CSM) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: FRP Central Strength Member (CSM) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers FRP Central Strength Member (CSM) Production Market Share 2025

Figure 30. China Based Manufacturers FRP Central Strength Member (CSM) Production Market Share 2025

Figure 31. Rest of World Based Manufacturers FRP Central Strength Member (CSM) Production Market Share 2025

Figure 32. World FRP Central Strength Member (CSM) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World FRP Central Strength Member (CSM) Production Value Market Share by Type in 2025

Figure 34. GFRP Strength Member

Figure 35. KFRP Strength Member

Figure 36. World FRP Central Strength Member (CSM) Production Market Share by Type (2021-2032)

Figure 37. World FRP Central Strength Member (CSM) Production Value Market Share by Type (2021-2032)

Figure 38. World FRP Central Strength Member (CSM) Average Price by Type (2021-2032) & (US\$/K Meter)

Figure 39. World FRP Central Strength Member (CSM) Production Value by Diameter, (USD Million), 2021 & 2025 & 2032

Figure 40. World FRP Central Strength Member (CSM) Production Value Market Share by Diameter in 2025

Figure 41. Diameter 5mm

Figure 44. World FRP Central Strength Member (CSM) Production Market Share by Diameter (2021-2032)

Figure 45. World FRP Central Strength Member (CSM) Production Value Market Share by Diameter (2021-2032)

Figure 46. World FRP Central Strength Member (CSM) Average Price by Diameter (2021-2032) & (US\$/K Meter)

Figure 47. World FRP Central Strength Member (CSM) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World FRP Central Strength Member (CSM) Production Value Market Share by Application in 2025

Figure 49. Electric Power

Figure 50. Telecommunications

Figure 51. Rail Transit

Figure 52. Others

Figure 53. World FRP Central Strength Member (CSM) Production Market Share by Application (2021-2032)

Figure 54. World FRP Central Strength Member (CSM) Production Value Market Share by Application (2021-2032)

Figure 55. World FRP Central Strength Member (CSM) Average Price by Application (2021-2032) & (US\$/K Meter)

Figure 56. FRP Central Strength Member (CSM) Industry Chain

Figure 57. FRP Central Strength Member (CSM) Procurement Model

Figure 58. FRP Central Strength Member (CSM) Sales Model

Figure 59. FRP Central Strength Member (CSM) Sales Channels, Direct Sales, and Distribution

Figure 60. Methodology

Figure 61. Research Process and Data Source

## I would like to order

Product name: Global FRP Central Strength Member (CSM) Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G4F7CA44DE8AEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G4F7CA44DE8AEN.html>