

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

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## Abstracts

The global Non-metallic 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).

Non-metallic Central Strength Member (CSM) is a core reinforcing component used in fiber optic cables—typically made of Fiberglass Reinforced Plastic (FRP)—that provides structural integrity without using metal. It sits at the very center of the cable, acting as the backbone to prevent the fiber from stretching or breaking during installation and under tensile stress.

**Market Size:** In 2025, global production of non-metallic central strength members for fiber optic cables 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.

From a demand-structure perspective, the market foundation for non-metallic central strength members is mainly supported by continuous investment in fixed broadband, FTTH, data-center interconnection, power communication networks, and all-dielectric aerial cables. Its growth is not tied to a single telecom investment cycle, but is driven by multi-regional network upgrades and the lightweighting of optical cable structures. Compared with metallic strength members, non-metallic CSM products offer stronger

advantages in electrical insulation, lightning resistance, corrosion resistance, weight reduction, and installation safety, making them better suited to all-dielectric and high-reliability cable designs. On the supply side, the industry has developed a clear division of labor: China and India are important manufacturing bases for standard FRP, GFRP, and KFRP products, while more mature markets tend to focus on higher-performance, coated, and customized products. Future competition will shift from price-led rivalry toward low shrinkage, low creep, water-blocking performance, dimensional stability, and compatibility with high-speed cabling processes. Policy support for gigabit and 10-gigabit networks should continue to support demand, while growth in mature markets is expected to normalize as coverage improves.

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

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

#### Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Non-metallic 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 Non-metallic 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 Non-metallic Central Strength Member (CSM) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-metallic Central Strength Member (CSM) Market, Segmentation by Type:

FRP Strength Member

ARP Strength Member

Global Non-metallic Central Strength Member (CSM) Market, Segmentation by Diameter:

Diameter 5mm

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

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