

Global Non-metallic Central Strength Member (CSM) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Non-metallic Central Strength Member (CSM) market size was valued at US\$ 277 million in 2025 and is forecast to a readjusted size of US\$ 415 million by 2032 with a CAGR of 5.8% during review period.

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

Key Features:

Global Non-metallic Central Strength Member (CSM) market size and forecasts, in consumption value (\$ Million), sales quantity (K Km), and average selling prices (US\$/K Meter), 2021-2032

Global Non-metallic Central Strength Member (CSM) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Km), and average selling prices (US\$/K Meter), 2021-2032

Global Non-metallic Central Strength Member (CSM) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Km), and average selling prices (US\$/K Meter), 2021-2032

Global Non-metallic Central Strength Member (CSM) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Km), and ASP (US\$/K Meter), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Non-metallic Central Strength Member (CSM)

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Non-metallic Central Strength Member (CSM) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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.

Market Segmentation

Non-metallic Central Strength Member (CSM) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

FRP Strength Member

ARP Strength Member

Market segment by Diameter

Diameter 5mm

Market segment by Application

Electric Power

Telecommunications

Rail Transit

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Non-metallic Central Strength Member (CSM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Non-metallic Central Strength Member (CSM), with price, sales quantity, revenue, and global market share of Non-metallic Central Strength Member (CSM) from 2021 to 2026.

Chapter 3, the Non-metallic Central Strength Member (CSM) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Non-metallic Central Strength Member (CSM) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Non-metallic Central Strength Member (CSM) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Non-metallic Central Strength Member (CSM).

Chapter 14 and 15, to describe Non-metallic Central Strength Member (CSM) sales channel, distributors, customers, research findings and conclusion.

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