

Steel Fiber Market by Type (Hooked, Straight, Deformed, Crimped), Manufacturing Process (Cold Drawn, Cut Wire, Melt Extract, Slit Sheet), Application (Concrete Reinforcements, Composite Reinforcements, Refractories), & Region- Global Forecast to 2029

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Abstracts

The Steel Fiber Market is estimated at USD 1.96 billion in 2024 and is projected to reach USD 2.44 billion by 2029, at a CAGR of 4.5% from 2024 to 2029. Steel fibers are more adaptable, affordable, and suitable for a range of applications where reinforcing is required like concrete, composites, and refractories. Hooked steel fibers are the most favored option for many reinforcement applications. It has mechanical properties that increase the crack resistance of the reinforced concrete and make it more durable.

“In terms of value, Straight steel fiber type to register the second highest CAGR in the overall Steel Fiber Market.”

Straight steel fibers are well-known for their consistent and uniform shape along their entire length that helps the steel fibers to align randomly within the concrete mix, depending on the mixing process and the flow characteristics of the concrete. Straight steel fibers are commonly used in a wide range of reinforcement applications including industrial flooring, pavements, shotcrete, tunnel linings, and precast concrete elements. There is gradually increasing demand of steel fibers in the construction industry as the building and infrastructure projects are increasing all around the world.

“In terms of value, composite application to register the highest CAGR in the overall Steel Fiber Market.”

The market for steel fiber in the composite application is expected to grow, driven by the increasing demand for composites in various end use industries like automotive and aerospace. Steel fibers play an important role in enhancing the mechanical properties of composite materials across various industries and applications. By combining steel fibers with different matrix materials like ceramics, polymer, and others, engineers can tailor composite materials to meet specific performance requirements.

“During the forecast period, the Steel Fiber Market in Asia Pacific region is to register the highest CAGR.”

Asia Pacific is the fastest-growing market for steel fibers. The market for steel fibers in the region is driven by the rapid urbanization and increasing investments from government in infrastructure development in many countries in this region. With economic contraction and saturation in the European and North American markets, the market is shifting to Asia Pacific. Manufacturers of steel fibers are targeting this region as it has a rapidly advancing construction industry, accounting for approximately 40% of the construction spending, according to the World Bank.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 40%, Tier 2- 33%, and Tier 3- 27%

By Designation- C Level- 50%, Director Level- 30%, and Executives- 20%

By Region- North America- 15%, Europe- 50%, Asia Pacific (APAC) - 20%, South America -10%, Middle East & Africa -5%.

The report provides a comprehensive analysis of company profiles:

Prominent companies include Bekaert (Belgium), ArcelorMittal (Luxembourg), Nippon Seisen (Japan), Fibrometals (Romania), Sika AG (Switzerland), Jiangsu Shagang Group (China), Zhejiang Boen Metal Products Co., Ltd. (China), Green Steel Group (Italy), Spajic Doo (Serbia), Kosteel Co., Ltd. (South Korea), Severstal (Russia), Enviromesh Pty Ltd. (Australia), Hunan Shuanxing Steel Fiber Co., Ltd. (China), and Kerakoll SPA (Italy).

Research Coverage

This research report categorizes the Steel Fiber Market, By Type (Hooked, Straight, Deformed, Crimped, and Others), By Manufacturing Process (Cut Wires, Cold Drawn, Slit Sheet, Melt Extract and Others), By Application (Concrete, Composites, and Refractories), and Region (North America, Europe, Asia Pacific, Middle East and Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the Steel Fiber Market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions, and services, key strategies, contracts, partnerships, and agreements. New product and service launches, mergers and acquisitions, and recent developments in the Steel Fiber Market are all covered. This report includes a competitive analysis of upcoming startups in the Steel Fiber Market ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall Steel Fiber Market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing demand for steel fibers in construction and building industry, high tensile and shear strength compared to synthetic fibers, and rising demand for steel fibers in automotive composites), restraints (surge in use of glass and synthetic fibers, and high cost of steel fibers over traditional reinforcement materials), opportunities (the research and advancements in manufacturing technologies present opportunities to develop new and improved steel fibers, and growing emphasis on sustainable construction and building materials), and challenges (susceptibility of steel fibers to corrosion, and need for uniform mixing and handling of steel fibers) influencing the growth of the Steel Fiber Market

Product Development/Innovation: Detailed insights on upcoming technologies,

research & development activities, and new product & service launches in the Steel Fiber Market

Market Development: Comprehensive information about lucrative markets – the report analyses the Steel Fiber Market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Steel Fiber Market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like include Bekaert (Belgium), ArcelorMittal (Luxembourg), Nippon Seisen (Japan), Fibrometals (Romania), Sika AG (Switzerland), Jiangsu Shagang Group (China), Zhejiang Boen Metal Products Co., Ltd. (China), Green Steel Group (Italy), Spajic Doo (Serbia), Kosteel Co., Ltd. (South Korea), Severstal (Russia), Enviromesh Pty Ltd. (Australia), Hunan Shuanxing Steel Fiber Co., Ltd. (China), and Kerakoll SPA (Italy) among others in the steel fiber market

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