



Hooked End Steel Fiber (HE SF-60)

Product Description

Fiberego's HE SF-60 is a 60mm hooked-end steel fiber designed to provide superior reinforcement for concrete. It delivers enhanced crack resistance, impact resistance, and load-bearing capacity, making it ideal for use in demanding applications like industrial slabs and blast-resistant structures. The fiber offers multi-directional reinforcement, improving concrete durability and performance.

Technical Specifications

Length	60mm
Diameter	0.5-2mm
Melting Point	1495°C
Tensile Strength	1.1GPa
Alkali&Acid Resistance	Good

Product Advantages

- **Uniform Multi-Directional Reinforcement:** Provides consistent reinforcement in all directions, enhancing the overall strength and load-bearing capacity of concrete.
- **Increased Crack Resistance:** Improves crack resistance, ductility, and energy absorption, ensuring concrete can handle dynamic loads and environmental stresses.
- **Improved Impact and Fatigue Resistance:** Increases concrete's ability to withstand impact, fatigue, and shear forces, ideal for high-demand applications.
- **High Load-Bearing Capacity:** The high tensile strength fibers bridge joints and cracks, enhancing aggregate interlock and providing greater load-bearing capacity.
- **Cost-Effective and Labor Efficient:** Reduces the need for conventional reinforcement, lowering material and labor costs while improving project scheduling.
- **Ideal for Pumped and Sprayed Concrete:** Well-suited for sprayed concrete applications, ensuring uniform thickness and eliminating voids behind wire mesh.
- **Time-Saving:** Reduces construction time by eliminating the need for traditional rebar placement, cutting, tying, and charring.

Applications

1. Industrial slabs
2. Pavements
3. Extended joints slab on ground
4. Blast resistant structures and other structural concrete
5. Industrial slabs-on-ground
6. Airport pavements
7. Blast resistant concrete
8. Equipment foundations
9. Precast
10. Jointless floors
11. Sprayed Concrete
12. Impact / Blast Resistant Concrete
13. UHPC Applications
14. Commercial and light industrial slabs on ground
15. Composite metal decks

Packaging

Steel fibers are packed in woven bags with an outer layer of kraft paper for enhanced protection. It is recommended to use orderly arranged cartons for easy distribution and use at construction sites, which also helps to prevent tangling and clumping of fibers.

Mixing and Application Recommendations:

Before construction, dry mixing should be performed by evenly spreading steel fibers into the refractory materials, followed by wet mixing. This approach effectively prevents clumping during wet mixing and ensures even distribution of steel fibers within the refractory materials.

Storage and Transportation

► Storage Requirements:

Store in a dry, cool, and well-ventilated area to prevent corrosion.

► Transportation Precautions for Steel Fibers:

Handle with care during loading and unloading to avoid damage.
Ensure the transportation vehicle is dry and clean to prevent rust and contamination.

► After-Opening Care for Steel Fibers:

If not all fibers are used upon opening, reseal the package promptly to prevent moisture exposure, which can lead to rust.
Store partially used steel fibers for no longer than 12 months to maintain their quality and effectiveness.

FAQs

Q1: What are the benefits of using HE SF-60 in concrete applications?

A1: HE SF-60 improves crack resistance, impact and fatigue resistance, and load-bearing capacity, providing enhanced durability and performance in demanding environments.

Q2: Can HE SF-60 replace traditional reinforcement methods like rebar?

A2: Yes, HE SF-60 can be used to reduce or replace traditional rebar, offering superior performance with less material and labor costs.

Q3: Is HE SF-60 suitable for high-load applications like industrial slabs and airport pavements?

A3: Yes, HE SF-60 is designed for high-load applications, providing excellent reinforcement for industrial slabs, airport pavements, and blast-resistant structures.

We strive to ensure that any advice, recommendation, or information provided in our product literature is accurate and correct. However, due to the fact that we do not have direct or continuous control over where or how the products are applied, FibeRego cannot accept any liability, either directly or indirectly, arising from the use of our products, whether or not in accordance with any advice, specification, recommendation, or information provided by us.

FibeRego is a global manufacturer of fibers, specializing in a variety of fibers for the concrete industry.



FOR ASSISTANCE WITH FIBERS:

- +86 158 5427 9587
- info@fibrengo-mikem.com (China office)
- sales@fibrengo-mikem.com (US R&D office)
- No. 988, Shunxing Road, Tianqiao District, Jinan, Shandong, China