



Glued Hooked End Steel Fiber (GHE SF-45)

Product Description

Fiberego's GHE SF-45 is a 45mm glued hooked-end steel fiber, designed to enhance concrete reinforcement for high-performance applications. This fiber provides superior crack resistance, improved load-bearing capacity, and enhances the overall durability of concrete. Ideal for both structural and industrial concrete, GHE SF-45 ensures long-lasting performance with minimal maintenance.

Technical Specifications

Length	45mm
Diameter	0.5-2mm
Melting Point	1495°C
Tensile Strength	1.1GPa
Alkali&Acid Resistance	Good

Product Advantages

- **Uniform Multi-Directional Reinforcement:** Provides consistent strength in all directions, ensuring a uniform distribution of reinforcement throughout the concrete.
- **Improved Crack Resistance:** Increases crack resistance, ductility, and energy absorption, enhancing the concrete's resistance to fatigue and dynamic loads.
- **High Load-Bearing Capacity:** The high tensile strength fibers bridge joints and cracks, improving aggregate interlock and increasing load-bearing capacity.
- **Enhanced Durability:** Improves the impact resistance, fatigue endurance, and shear strength of concrete, making it more durable in demanding applications.
- **Efficient Construction:** Reduces labor costs and construction time by eliminating the need for cutting, placing, and tying traditional reinforcement.
- **Pumping and Sprayed Concrete:** Well-suited for pumped or sprayed concrete applications, ensuring uniform thickness and preventing voids behind traditional mesh.
- **Sustainable Reinforcement:** Helps reduce the environmental impact by substituting steel reinforcement with more efficient synthetic fibers, lowering carbon footprint.

Applications

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

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: How does GHE SF-35 enhance concrete performance compared to traditional reinforcement methods?

A1: GHE SF-35 provides multi-directional reinforcement that increases crack resistance, energy absorption, and load-bearing capacity, making concrete more durable and capable of withstanding higher stresses.

Q2: Can GHE SF-35 be used in sprayed concrete applications?

A2: Yes, GHE SF-35 is ideal for sprayed concrete, ensuring a uniform thickness and preventing voids, which can occur with traditional wire mesh.

Q3: What are the key benefits of using GHE SF-35 in industrial slab applications?

A3: GHE SF-35 offers enhanced impact resistance, crack resistance, and load-bearing capacity, making it perfect for high-demand applications like industrial slabs, reducing the need for additional reinforcement materials and cutting labor costs.

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



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