



Glued Hooked End Steel Fiber (GHE SF-35)

Product Description

Fiberego's GHE SF-35 is a 35mm glued hooked-end steel fiber specifically designed to enhance the strength and durability of concrete. This fiber provides multi-directional reinforcement, increasing the performance of concrete structures under dynamic loads, improving crack resistance, and enhancing impact resistance, making it ideal for high-performance concrete (UHPC), industrial slabs, and other demanding applications.

Technical Specifications

Length	35mm
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, improving the overall strength of concrete.
- **Improved Crack Resistance:** Increases crack resistance, energy absorption, and ductility, making concrete more durable under stress.
- **Enhanced Toughness and Impact Resistance:** Boosts the impact resistance, fatigue endurance, and shear strength of concrete, particularly in high-stress environments.
- **High Load-Bearing Capacity:** The high tensile strength of the fibers bridges joints and cracks, enhancing load-carrying capacity and preventing structural failures.
- **Reduced Labor Costs:** Easier to incorporate into concrete mixes compared to traditional reinforcement methods, saving labor and time.
- **Efficient for Pumping and Sprayed Concrete:** Ideal for use in pumped or sprayed concrete applications, ensuring uniform application without voids behind traditional wire mesh.
- **Economical and Sustainable:** Provides an economical solution for reinforcement with the added benefit of reducing the need for conventional reinforcement, thus cutting material and labor costs.

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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