

Glued Hooked End Steel Fiber (GHE SF-60)

Product Description

Fiberego's GHE SF-60 is a 60mm glued hooked-end steel fiber designed to provide robust reinforcement for concrete applications. This fiber is engineered to enhance concrete's mechanical properties, improving its strength, durability, and resistance to cracking. Ideal for heavy-duty industrial and structural applications, GHE SF-60 ensures high load-bearing capacity and performance in demanding concrete projects.

Technical Specifications

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

Product Advantages

- **High Strength Reinforcement:** Provides uniform, multi-directional reinforcement, enhancing concrete's overall strength and load-bearing capacity.
- **Improved Crack Resistance:** Increases crack resistance, ductility, and energy absorption, making concrete more resilient under stress.
- **Enhanced Durability:** The high tensile strength of the fibers bridges cracks and joints, improving concrete's long-term durability.
- **Increased Impact and Fatigue Resistance:** Improves the concrete's ability to withstand impact, fatigue, and shear forces, ideal for high-load environments.
- **Cost and Labor Efficiency:** Reduces the need for conventional reinforcement, lowering material costs and simplifying the construction process with less labor required.
- **Ideal for Pumping and Sprayed Concrete:** Well-suited for pumped and sprayed concrete applications, ensuring uniform coverage and eliminating voids behind traditional reinforcement.
- **Quick Installation:** Reduces construction time by eliminating the need for cutting, placing, and tying traditional reinforcement.

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: How does GHE SF-60 improve the performance of concrete?

A1: GHE SF-60 enhances concrete's crack resistance, load-bearing capacity, and impact resistance, providing greater durability and toughness, especially in high-load environments.

Q2: Can GHE SF-60 replace traditional steel reinforcement?

A2: Yes, GHE SF-60 can replace or reduce the need for traditional steel reinforcement, offering similar or improved performance while saving on material and labor costs.

Q3: Is GHE SF-60 suitable for sprayed concrete applications?

A3: Yes, GHE SF-60 is ideally suited for sprayed concrete, ensuring uniform thickness and eliminating the voids that can develop behind traditional wire mesh in shotcrete applications.

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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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