



Glued Hooked End Brass Coated Steel Fiber (GHEB SF-12)

Product Description

Fiberego's GHEB SF-12 is a 12mm brass-coated, glued hooked-end steel fiber designed to provide high-performance reinforcement for concrete. This advanced fiber enhances crack resistance, load-bearing capacity, and overall durability of concrete structures. With its brass coating offering superior corrosion protection, GHEB SF-12 is ideal for demanding concrete applications such as industrial slabs and blast-resistant concrete.

Technical Specifications

Length	12mm
Diameter	0.15mm
Melting Point	1495°C
Tensile Strength	2.85GPa
Alkali&Acid Resistance	Good

Product Advantages

- **Uniform Multi-Directional Reinforcement:** Provides consistent and strong reinforcement in all directions, increasing the overall concrete strength.
- **Enhanced Crack Resistance:** Improves ductility and toughness, making concrete more resistant to cracking, especially in high-performance applications.
- **Increased Load-Bearing Capacity:** The high tensile strength fibers bridge cracks and joints, improving aggregate interlock and increasing load capacity.
- **Improved Durability:** The brass coating provides additional corrosion resistance, ensuring concrete structures last longer in harsh conditions.
- **Reduced Labor Requirements:** Requires less labor for incorporation into concrete than conventional reinforcement methods, improving construction efficiency.
- **Ideal for Pumped or Sprayed Concrete:** Suitable for pumped and sprayed concrete applications, ensuring uniform thickness and preventing voids behind wire mesh.
- **Cost-Effective Solution:** Provides a more economical alternative to traditional reinforcement methods, while improving project scheduling accuracy.

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 | |

FAQs

Q1: What makes GHEB SF-12 suitable for high-performance concrete applications?

A1: GHEB SF-12 improves crack resistance, load-bearing capacity, and impact resistance, making it ideal for demanding environments like blast-resistant structures and UHPC applications.

Q2: How does the brass coating benefit GHEB SF-12 in concrete applications?

A2: The brass coating provides corrosion resistance, extending the lifespan of concrete structures by protecting the fibers from environmental factors that cause degradation.

Q3: Can GHEB SF-12 be used in place of traditional reinforcement methods like rebar and wire mesh?

A3: Yes, GHEB SF-12 can replace or reduce the need for traditional reinforcement methods, offering superior performance with less material and labor costs.

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.

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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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