



Glued Hooked End Brass Coated Steel Fiber (GHEB SF-06)

Product Description

Fiberego's GHEB SF-06 is a 6mm brass-coated glued hooked-end steel fiber designed to enhance the strength and durability of concrete. With a brass coating for added corrosion resistance, this fiber provides uniform multi-directional reinforcement, improving the concrete's crack resistance, impact resistance, and overall performance, making it ideal for high-demand applications like industrial slabs and blast-resistant structures.

Technical Specifications

Length	6mm
Diameter	0.15mm
Melting Point	1495°C
Tensile Strength	2.85GPa
Alkali&Acid Resistance	Good

Product Advantages

- **Uniform Multi-Directional Reinforcement:** Provides consistent reinforcement in all directions, enhancing the overall strength of concrete.
- **Improved Crack Resistance:** Increases the concrete's crack resistance, ductility, and energy absorption, improving performance under stress.
- **Enhanced Load-Bearing Capacity:** The high tensile strength fibers bridge joints and cracks, improving aggregate interlock and increasing load-bearing capacity.
- **Increased Durability:** The brass coating offers superior corrosion resistance, prolonging the lifespan of concrete structures.
- **Improved Impact Resistance:** Boosts the concrete's resistance to impact, fatigue, and shear forces, ensuring durability in high-stress environments.
- **Cost and Labor Efficiency:** Reduces labor costs by simplifying the reinforcement process, requiring less time and effort compared to traditional rebar or wire mesh.
- **Versatility in Application:** Ideal for use in sprayed concrete, ensuring uniform thickness and preventing voids behind wire mesh.

Applications

- | | |
|---|--|
| 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: How does the brass coating on GHEB SF-06 improve concrete reinforcement?

A1: The brass coating on GHEB SF-06 enhances corrosion resistance, which extends the lifespan of concrete structures, especially in harsh environments.

Q2: Can GHEB SF-06 be used in place of traditional steel reinforcement?

A2: Yes, GHEB SF-06 can replace or reduce the need for traditional steel reinforcement, offering comparable or superior performance with reduced labor and material costs.

Q3: Is GHEB SF-06 suitable for high-performance concrete applications like UHPC?

A3: Yes, GHEB SF-06 is ideal for UHPC applications due to its ability to improve crack resistance, impact strength, and overall durability in high-performance concrete mixes.

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.

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@fiberego-mikem.com (China office)

sales@fiberego-mikem.com(US R&D office)

No. 988, Shunxing Road,Tianqiao District,
Jinan, Shandong, China