



## Glued Hooked End Brass Coated Steel Fiber (GHEB SF-09)

### Product Description

Fiberego's GHEB SF-09 is a 9mm brass-coated, glued hooked-end steel fiber designed for superior reinforcement in concrete. This high-performance fiber improves crack resistance, impact resistance, and load-bearing capacity, making it ideal for demanding applications. The brass coating offers additional corrosion protection, ensuring enhanced durability and a longer service life for concrete structures.

### Technical Specifications

Length	9mm
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 concrete's strength and overall performance.
- **Improved Crack Resistance:** Increases crack resistance, ductility, and energy absorption, making concrete more resilient under stress.
- **Enhanced Load-Bearing Capacity:** High tensile strength fibers bridge joints and cracks, improving aggregate interlock and increasing load-carrying capacity.
- **Corrosion Resistance:** The brass coating offers superior protection against corrosion, enhancing the durability of concrete structures.
- **Impact and Fatigue Resistance:** Improves impact resistance, fatigue endurance, and shear strength, making it ideal for high-stress applications.
- **Reduced Labor Costs:** Simplifies the reinforcement process, requiring less labor than traditional reinforcement methods, reducing overall project time.
- **Ideal for Sprayed Concrete:** Well-suited for pumping and sprayed concrete applications, ensuring uniform thickness and eliminating voids behind traditional reinforcement.

## 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 improve the performance of GHEB SF-09?

A1: The brass coating provides corrosion resistance, extending the life of concrete and protecting it from harsh environmental conditions.

### Q2: Can GHEB SF-09 replace traditional steel reinforcement?

A2: Yes, GHEB SF-09 can replace or reduce the need for traditional steel reinforcement, providing equivalent or superior performance with fewer materials and reduced labor.

### Q3: What are the benefits of using GHEB SF-09 in sprayed concrete applications?

A3: GHEB SF-09 ensures uniform thickness in sprayed concrete, prevents voids behind wire mesh, and enhances the overall strength and durability of the structure.

## 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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