



Brass Coated Micro Steel Fiber (BCM SF-06)

Product Description

Fiberego's BCM SF-06 is a 6mm brass coated micro steel fiber, offering exceptional reinforcement for concrete applications. This advanced product is designed to enhance the mechanical properties of concrete, providing superior durability, enhanced crack resistance, and increased load-bearing capacity, particularly in ultra-high-performance concrete (UHPC) and other demanding environments.

Technical Specifications

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

Product Advantages

- **Enhanced Concrete Integrity:** Provides uniform, multi-directional reinforcement, significantly increasing the strength and durability of concrete.
- **Superior Crack Resistance:** Enhances the concrete's ability to resist cracking through improved ductility and energy absorption.
- **Improved Load-Bearing Capacity:** High tensile strength fibers bridge joints and cracks, resulting in tighter aggregate interlock and greater load-carrying capabilities.
- **Increased Durability:** The brass coating offers additional corrosion resistance, extending the life cycle of concrete structures.
- **Labor Efficiency:** Simplifies the construction process as these fibers require less labor to incorporate compared to conventional reinforcement methods.
- **Versatile Application:** Ideal for both traditional concrete pouring and modern methods like spraying or shot placement, ensuring uniform thickness and strength across applications.
- **Reduced Construction Time:** Facilitates quicker project completion by eliminating the need for extensive placement and tying of traditional reinforcement.

Applications

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| 1. Industrial slabs | 12. Impact / Blast Resistant Concrete |
| 2. Pavements | 13. UHPC Applications |
| 3. Extended joints slab on ground | 14. Commercial and light industrial slabs on ground |
| 4. Blast-resistant structures | 15. Composite metal decks |
| 5. Industrial slabs-on-ground | |
| 6. Airport pavements | |
| 7. Blast-resistant concrete | |
| 8. Equipment foundations | |
| 9. Precast | |
| 10. Jointless floors | |
| 11. Sprayed Concrete | |

FAQs

Q1: What makes BCM SF-06 suitable for high-performance applications like UHPC?

A1: BCM SF-06 fibers increase the ductility, crack resistance, and load-bearing capacity of UHPC, making it ideal for applications requiring extreme durability and strength.

Q2: How does the brass coating on BCM SF-06 benefit concrete reinforcement?

A2: The brass coating on BCM SF-06 fibers helps in preventing corrosion, thereby enhancing the longevity and durability of the concrete structures.

Q3: Can BCM SF-06 be used in blast-resistant concrete applications?

A3: Yes, BCM SF-06 is especially suited for blast-resistant applications due to its high energy absorption, impact resistance, and ability to reinforce concrete against severe loads and stresses.

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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