



Hooked End Steel Fiber (HE SF-35)

Product Description

Fiberego's HE SF-35 is a 35mm hooked end steel fiber engineered for optimal concrete reinforcement. This product is designed to significantly enhance the structural properties of concrete through multi-directional reinforcement, improving its strength, durability, and resistance to environmental factors.

Technical Specifications

| | |
|------------------------|---------|
| Length | 35mm |
| Diameter | 0.5-2mm |
| Melting Point | 1495°C |
| Tensile Strength | 1.1GPa |
| Alkali&Acid Resistance | Good |

Product Advantages

- **Enhanced Structural Integrity:** Provides uniform, multi-directional reinforcement that increases the concrete's tensile strength and load-bearing capacity.
- **Increased Durability:** Enhances the concrete's resistance to cracking, impact, and abrasion, extending the lifespan of structures.
- **Improved Ductility and Toughness:** Increases the concrete's ductility, energy absorption, and toughness, particularly beneficial for ultra-high-performance concrete (UHPC).
- **Reduced Labor Costs:** Simplifies the construction process by requiring less labor to incorporate compared to traditional reinforcement methods.
- **Cost-Effective:** Offers an economical solution for concrete reinforcement that improves scheduling accuracy and reduces overall project costs.
- **Ideal for Complex Applications:** Well-suited for use in sprayed concrete and thin-walled precast products due to its excellent bonding and dispersion properties.
- **Reduction in Construction Time:** Minimizes the time required for placing, cutting, and charring of conventional reinforcement, facilitating faster project completion.

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 | |

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 HE SF-35 improve concrete's crack resistance?

A1: HE SF-35 fibers bridge joints and cracks within the concrete, providing tighter aggregate interlock which significantly enhances crack resistance and overall structural integrity.

Q2: Can HE SF-35 be used in applications requiring high impact resistance?

A2: Yes, HE SF-35 is ideal for environments requiring high impact resistance and fatigue endurance, such as industrial floors and blast-resistant structures.

Q3: What makes HE SF-35 a better alternative to conventional steel reinforcement?

A3: HE SF-35 provides three-dimensional reinforcement that improves concrete's strength and durability while reducing labor requirements and construction time, making it a more efficient and cost-effective option than traditional steel reinforcement.

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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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