



High Tensile Strength Polyester Fiber (HTS PF-15)

Product Description

Fiberego's HTS PF-15 is a 15mm high tensile strength polyester fiber designed to enhance the performance of concrete structures. This innovative fiber is tailored to increase the durability, strength, and resilience of concrete, making it suitable for a wide range of applications in the construction industry. HTS PF-15 is an environmentally friendly option that delivers superior results in concrete reinforcement.

Technical Specifications

Composition	Organic dibasic acid and diol
Diameter	12-18 μ m
Length	15mm
Melting Point	160-170°C
Tensile Strength	≥ 1000 Mpa
Elastic Modulus	≥ 6.0 GPa
Elongation	15-20%

Product Advantages

- **Superior Strength:** Enhances the tensile strength of concrete, reducing the likelihood of cracks and structural failures.
- **Enhanced Durability:** Improves the longevity of concrete structures by resisting harsh environmental conditions and chemical attacks.
- **Increased Flexibility:** Provides greater flexibility to concrete, allowing it to withstand various loads and stresses without compromising its integrity.
- **Cost-Effective:** Offers a cost-efficient alternative to traditional materials by reducing maintenance and repair costs over time.
- **Easy Integration:** Mixes easily with concrete without clumping, ensuring uniform distribution throughout the concrete mix.
- **Environmental Sustainability:** Made from recycled materials, contributing to reduced carbon emissions and promoting green building practices.
- **Versatile Applications:** Suitable for various construction needs, enhancing both structural and aesthetic aspects of concrete.

Applications

1. Building foundations
2. Bridge decks
3. Road pavements
4. Airport runways
5. Industrial flooring
6. Retaining walls
7. Water reservoirs
8. Precast concrete elements
9. Earthquake-resistant structures
10. Marine structures
11. Parking lots
12. Roof decks
13. Tunnel linings
14. Decorative concrete
15. Fire-resistant applications

FAQs

Q1: How does HTS PF-15 improve the overall quality of concrete?

A1: HTS PF-15 fibers distribute stress evenly, reduce the formation of cracks, and enhance the durability and flexibility of concrete, ensuring high-quality outcomes.

Q2: Can HTS PF-15 replace traditional steel reinforcements in all types of concrete applications?

A2: While HTS PF-15 can significantly enhance concrete properties and replace steel in many scenarios, it is recommended to evaluate specific structural requirements for each project.

Q3: What makes HTS PF-15 a sustainable choice in construction materials?

A3: Made from recycled polyester, HTS PF-15 supports sustainable construction practices by reducing waste and promoting the use of renewable resources.

Packaging

- **Inner Packaging:** Each pack contains 0.2-4 kg, sealed in standard plastic bags for quality preservation.
- **Outer Packaging:** Packs are placed in woven bags or cardboard boxes, each weighing 10-20 kg, tailored to customer specifications.
- **Customized Options:** Available in water-soluble film, water-soluble paper, or regular paper bags for diverse needs.
- **Compression Packaging:** Reduces volume for efficient storage and transport, enhancing cost-effectiveness and sustainability.

Storage and Transportation

► Storage Requirements:

- Store in a dry, cool, ventilated area.
- Avoid direct sunlight to prevent degradation from UV exposure.
- Keep away from humid environments to maintain fiber performance.
- Avoid heavy pressure and high stacking to prevent packaging damage.

► Transportation Precautions:

- Handle carefully during loading and unloading to prevent damage.
- Ensure the transport vehicle is dry and clean to avoid moisture.
- Protect from sharp objects and prevent heavy items from crushing the packaging.

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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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