



High Tensile Strength Polyester Fiber (HTS PF-12)

Product Description

Fiberego's HTS PF-12 is a 12mm high tensile strength polyester fiber engineered for concrete reinforcement. This fiber is designed to enhance the mechanical properties of concrete, offering superior durability, crack resistance, and strength. HTS PF-12 is an environmentally friendly option that provides significant performance benefits over traditional concrete reinforcement materials.

Technical Specifications

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

Product Advantages

- **Increased Durability:** Enhances the long-term durability of concrete by reducing the formation of cracks and improving resistance to environmental stressors.
- **High Tensile Strength:** Provides superior tensile strength, contributing to increased structural integrity of concrete applications.
- **Improved Impact Resistance:** Elevates the concrete's ability to withstand impact and load stresses, making it ideal for heavy-duty applications.
- **Enhanced Flexibility:** Adds flexibility to concrete, allowing it to absorb and distribute energy more effectively, which is crucial for dynamic loads.
- **Cost-Effective:** Reduces overall costs associated with maintenance and repair due to its long-lasting properties.
- **Easy to Integrate:** Mixes uniformly within concrete without clumping, ensuring even distribution throughout the mix.
- **Environmentally Friendly:** Offers a sustainable alternative to traditional materials, reducing the carbon footprint of construction projects.

Applications

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| 1. Road pavements | 12. Shotcrete applications |
| 2. Bridge decks | 13. Parking lots |
| 3. Airport runways | 14. Overlays |
| 4. Industrial flooring | 15. Drainage systems |
| 5. Structural concrete components | |
| 6. Seismic retrofit projects | |
| 7. Water retention structures | |
| 8. Precast concrete elements | |
| 9. Residential and commercial building slabs | |
| 10. Foundation constructions | |
| 11. Tunnel linings | |

FAQs

Q1: How does HTS PF-12 improve the lifespan of concrete structures?

A1: HTS PF-12 fibers distribute stresses uniformly across the concrete, reducing the likelihood of crack formation and structural failures, thus extending the lifespan of the structure.

Q2: Can HTS PF-12 be used in place of traditional steel reinforcements?

A2: Yes, HTS PF-12 can be used as an alternative to steel in certain applications, providing similar or improved reinforcement properties while being corrosion-resistant and lighter.

Q3: Is HTS PF-12 suitable for use in environmental conservation projects?

A3: Absolutely, HTS PF-12 is made from recycled materials and contributes to sustainable construction practices, making it suitable for projects aimed at environmental conservation.

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.



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