



Normal Tensile Strength Polyester Fiber (NTS PF-18)

Product Description

Fiberego's NTS PF-18 is a high-quality 18mm polyester fiber designed specifically for concrete reinforcement. This fiber optimizes the mechanical properties of concrete, making it more durable, resistant to environmental factors, and capable of bearing significant loads. It provides an eco-friendly alternative to traditional steel reinforcements, ensuring long-term sustainability and reduced environmental impact.

Technical Specifications

Composition	Organic dibasic acid and diol
Diameter	12-18 μ m
Length	18mm
Melting Point	160-170°C
Tensile Strength	\geq 600MPa
Elastic Modulus	\geq 4.0GPa
Elongation	15-20%

Product Advantages

- **Enhanced Durability:** Improves the overall durability of concrete by reducing the likelihood of cracks and damage from environmental stresses.
- **Increased Strength:** Provides significant tensile strength to concrete, enhancing its structural integrity and load-bearing capacity.
- **Improved Crack Resistance:** Reduces the formation of micro-cracks and helps maintain the aesthetic and structural qualities of concrete surfaces.
- **Cost-Effective:** Offers a cost-efficient solution for reinforcing concrete without compromising on performance.
- **Eco-Friendly:** Made from recycled materials, contributing to reduced carbon emissions and promoting sustainability in construction.
- **Easy to Implement:** Mixes easily with other concrete materials, ensuring uniform distribution without the need for specialized equipment.
- **Versatile Applications:** Suitable for a variety of concrete types, including structural, precast, and decorative concrete.

Applications

1. Structural concrete
2. Precast concrete products
3. Concrete roads
4. Concrete bridges
5. Residential and commercial building slabs
6. Airport runways
7. Concrete pipes
8. Water tanks
9. Retaining walls
10. Marine structures
11. Decorative concrete
12. Sidewalks and pathways
13. Foundation constructions
14. Industrial flooring
15. Sports arenas

FAQs

Q1: How does NTS PF-18 improve the lifespan of concrete structures?

A1: By enhancing tensile strength and reducing the occurrence of cracks, NTS PF-18 prolongs the lifespan of concrete structures by preventing early deterioration and damage.

Q2: Can NTS PF-18 be used in environmental exposure areas such as marine structures?

A2: Yes, NTS PF-18 is ideal for use in environments with high exposure to moisture and chemicals due to its high chemical and corrosion resistance.

Q3: What makes NTS PF-18 a better alternative to traditional steel fibers?

A3: NTS PF-18 offers similar reinforcement benefits while being non-corrosive, lighter, and more environmentally friendly than steel, making it suitable for a broader range of applications and easier to handle during construction.

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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