



Normal Tensile Strength Polyester Fiber (NTS PF-12)

Product Description

Fiberego's NTS PF-12 is a 12mm normal tensile strength polyester fiber designed for use in concrete applications. This fiber enhances the mechanical properties of concrete, providing better crack resistance and improving its overall durability. NTS PF-12 is an ideal solution for a variety of concrete reinforcement needs, offering cost-effective, long-lasting performance.

Technical Specifications

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

Product Advantages

- **Cost-Effective Reinforcement:** Offers a more affordable alternative to traditional reinforcement methods while improving concrete strength.
- **Improved Crack Resistance:** Enhances the concrete's ability to resist cracking due to thermal changes and mechanical stresses.
- **Increased Durability:** Provides long-lasting performance by reducing the potential for early-age cracking and improving concrete's longevity.
- **Easy Integration:** Simple to incorporate into concrete mixes without clumping, ensuring uniform distribution and effective reinforcement.
- **Flexibility:** Offers improved flexibility to concrete, making it more adaptable to environmental conditions and heavy loading.
- **Corrosion-Free:** Unlike metal reinforcement, polyester fibers are not susceptible to rust, ensuring consistent performance over time.
- **Environmental Resistance:** Provides additional resistance to water absorption and environmental degradation, improving concrete's lifespan in harsh conditions.

Applications

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

FAQs

Q1: How does NTS PF-12 improve the quality of concrete?

A1: NTS PF-12 enhances crack resistance and durability by improving the concrete's overall strength and flexibility, ensuring better performance under stress and exposure to environmental factors.

Q2: Can NTS PF-12 be used in place of steel reinforcement?

A2: While NTS PF-12 can supplement or reduce the use of traditional steel reinforcement, it may not completely replace steel in certain high-load applications. It is most effective for reducing cracking and improving overall concrete performance.

Q3: What makes NTS PF-12 suitable for outdoor applications?

A3: NTS PF-12 fibers are resistant to water absorption and environmental degradation, making them ideal for use in outdoor applications like pavements and industrial slabs exposed to harsh conditions.

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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