FibeRego
A brand by IKEM

Your Concrete Reinforcement Solutions
www.fiberego.com

# CONCRETE **FIBER**

At Fiberego™, the products we developed are conductive to creating an environmentally–friendly society. Our fundamental criterion from the stage of R&D is to produce eco–friendly fibers.

# FIBEREGO™

## Believe in The Power of The Brand

**Concrete** is one of the most extensively used building materials in the world. Concrete admixtures are natural or manufactured substances added during the concrete mixing process to improve the quality, performance and sustainability of the final concrete product. With only a small amount in application, these products can produce the desired effect (e.g., improved workability, increased durability, controlled setting and hardening, early and final strength, etc.)

**Fiberego™** by Mikem Chemical has had proven achievements in making concrete fibers for 36 years. Polypropylene micro fiber, Polypropylene marco fiber, Glued steel fiber, Brass coated micro steel fiber, Polyester fiber, PVA fiber, and so on. By improving the functions of raw materials, we have added considerable value to our products. The shipping rate of our products has maintained a leading record of on–time delivery. We combined economic success with environmental protection and social duty. With great R&D team, we are always ready to offer you the top–class services in no time.

## Standards

Complies with ASTM C1116/C1116M Type III Fiber Reinforced Concrete and ASTM D7508/D7508M
Complies with European Standard EN 14889–2:2006 Fibres for Concrete Part 2:Class II.

**MIKEM** is a global manufacturer and supplier of specialty chemical products. Headquartered in Dallas, USA, we have branches, offices, manufacturing plants, sourcing teams, and warehouses in different countries. We have either owned or invested plants for some of our products. We also established strong partnerships with a selection of professional suppliers to provide our customers with exceptional and reliable supply chain solutions.

# 01 Monofilament PP Fiber

## Monofilament PP Fiber

## Introduction

Fiberego™ Monofilament PP Fiber is a high-strength fiber crafted from 100% virgin polypropylene. These fibers consist of extremely fine, single filaments, Specifically designed to mitigate the occurrence of plastic shrinkage cracking in concrete. Fiberego™ synthetic microfiber, also referred to as polypropylene fiber, monofilament (mono) fiber, anti-cracking fiber, and concrete reinforcement fiber, provides a comprehensive solution for enhancing the durability of concrete structures.


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|---|---|
| Packing | Customized |
| Delivery | 7-10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Diameter | 30±2μm | Melting Point | 160-170℃ |
| Breaking Strength | ⩾500Mpa | Acid and Alkali Resistance | ⩾95% |
| Initial modulus of elasticity | ⩾3.4×10$^3$Mpa | Package | Customized |
| Elongation at break | 25% | Length | 3-20mm |

## Different Specifications

Monofilament PP Fiber
**3mm**

Monofilament PP Fiber
**6mm**

Monofilament PP Fiber
**12mm**

Monofilament PP Fiber
**15mm**

Monofilament PP Fiber
**19mm**

# Monofilament PP Microfiber

## Introduction

Fiberego™ Monofilament PP Microfiber manufactured from 100% virgin polypropylene, containing no recycled materials. Specifically engineered and manufactured for Fiber Reinforced Concrete and Shotcrete. Fiberego™ Monofilament, Fine Denier Microfiber have high tensile strength and high modulus, which can help enhance the mechanical properties of concretes and improve the bond strength between fibres and cementitious matrix. It has excellent dispersibility and will not agglomerate, thus ensuring its effective anti-cracking performance, provide stable chemical properties, and strong acid and alkali resistance.

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| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Composition | 100% Virgin Polypropylene | Tensile Strength | ⩾550 MPa |
| Fiber Type | Monofilament Micro Fiber, Fine Denier | Elastic Modulus | ⩾5000 MPa |
| Cross Section | Circular | Elongation | 20 – 25 % |
| Length | 3–20 mm | Melting Point | 160–170 ℃ |
| Thickness | 18 micron | Acid and Alkali Resistance | High |

## Application

# 02 Synthetic PP Macrofiber

## Black Embossed Synthetic PP Macrofiber

## Introduction

Black Embossed Synthetic PP Macrofiber is a high quality building material that ensures excellent quality and reliability by being made from 100% virgin polypropylene. Its unique breaking strength, optimized dispersion and strong bonding make it ideal for optimizing concrete properties. The uneven surface texture further enhances its bond with concrete, providing excellent resistance to shrinkage and cracking. Incorporating black polypropylene coarse fibers into concrete has been proven to effectively increase its tensile strength, providing an effective solution for mitigating surface shrinkage cracks.

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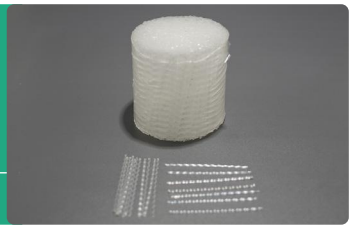
| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Composition | 100% Polypropylene, Black Masterbatch | Tensile Strength | ⩾400 MPa |
| Type | Black Embossed Macro Fiber | Elastic Modulus | >4000 MPa |
| Color | Black/ Customized | Melting Point | 160–170 ℃ |
| Diameter | 0.2, 0.6, 0.8, 1.0 mm | Acid and Alkali Resistance | High |
| Regular Length | 20–55mm/ Customized | | |

# Bamboo-Shaped Synthetic PP Macrofiber



## Introduction

Fiberego™ Bamboo-Shaped Synthetic PP Macrofiber, also known as polypropylene macro synthetic fiber or PP structural fiber, is a type of synthetic fiber used as a reinforcement material in concrete. PP Macro Fiber is specifically designed to enhance the mechanical properties and performance of concrete structures, provides three- imensional reinforcing with enhanced flexural toughness, impact and abrasion resistance and will also help mitigate the formation of plastic shrinkage cracking in concrete. It is a single mono-filament thick fiber with a rough surface and a well-defined shape. It has different diameters, lengths, and shapes.

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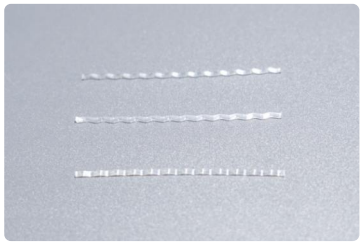
| Packing | Customized |
| Delivery | 7-10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

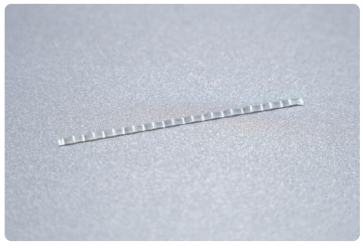
| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Length | 25-60mm | Elongation at break | ⩽30% |
| Diameter | 0.6、0.8、1.0mm | Acid and Alkali Resistance | ⩾95% |
| Tensile Strength | ⩾400MPa | Melting Point | 160～170℃ |
| Elastic Modulus | ⩾4.5GPa | Package | Customized |

## Best Sellers



FIBEREGO™ MAF 52W
PP Fiber : Length 52 mm

FIBEREGO™ MAF 50W
PP Fiber : Length 50 mm



FIBEREGO™ MAF 48W
PP Fiber : Length 48 mm

# White Embossed Synthetic PP Macrofiber

## Introduction

Fiberego™ White Embossed Synthetic PP Macrofiber is made of 100% virgin polypropylene, ensuring superior quality. With exceptional breaking strength, optimal dispersion, and robust binding force, these fibers are designed to enhance concrete performance significantly. The embossed surface further enhances the bonding with concrete, providing superior resistance to shrinkage and cracks. The incorporation of synthetic fibers into concrete serves as a proven method to elevate tensile strength, offering an effective solution to mitigate surface shrinkage cracks.

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| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

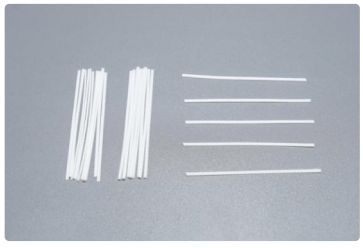
## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Length | 25–60mm | Elongation at break | ≤30% |
| Diameter | 0.6、0.8、1.0mm | Acid and Alkali Resistance | ≥95% |
| Tensile Strength | ≥550MPa | Melting Point | 160～170℃ |
| Elastic Modulus | ≥5.5GPa | Package | Customized |

## Best Sellers

**FIBEREGO™ MAF 54E**
PP Fiber : Length 54 mm

**FIBEREGO™ MAF 50E**
PP Fiber : Length 50 mm



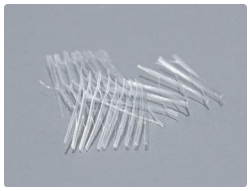
**FIBEREGO™ MAF 48E**
PP Fiber : Length 48 mm

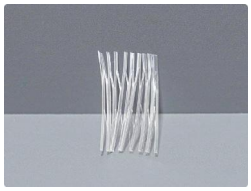
# 03 Monofilament PP Microfiber

## Fibrillated PP Microfiber

## Introduction

Polypropylene as the main raw material, Fiberego™ Fibrillated PP Microfiber is a grid structured fiber formed by the cross-linking of single fibers. Our Synthetic Fibrillated Microfiber is non-toxic and acid/alkali resistant. It has anti-magnetic and anti-rust ability and has good chemical stability. This product is mainly used in various concretes, such as high-grade concrete pavement, protective fence, bridge deck, factory floor, the main structure of bridge and sidewalk, concrete face dams, spillway, diversion hole, and other parts in the water conservancy and hydropower project, airport runways, apron pavement, tunnels, mines, and subway, etc.





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|---|---|
| Packing | Customized |
| Delivery | 7-10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Length | 6～19mm | Elongation at break | 15～18% |
| Diameter | 110～130mm | Acid and Alkali Resistance | ⩾95% |
| Tensile Strength | ⩾400MPa | Melting Point | 160～170℃ |
| Elastic Modulus | ⩾3.5GPa | | |

# 04 Twisted Bundle PP Fiber

## Gray Twisted Bundle PP Fiber

## Introduction

Fiberego™ Gray Twisted Bundle PP Fiber crafted from polypropylene,comprises intricately twisted bundles of monofilament fibers, specifically engineered for reinforcing structural concrete. This advanced fiber exhibits a high-performance structure, ensuring unparalleled durability while mitigating risks associated with corrosion, magnetism, and alkali exposure. Its application in structural concrete reinforcement underscores its exceptional strength and resilience, making it an optimal choice for enhancing the longevity and performance of concrete structures in various construction scenarios.

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|---|---|
| Packing | Customized |
| Delivery | 7-10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Composition | Polypropylene | Tensile Strength | ≥400 MPa |
| Type | Synthetic Macro Fiber Twisted | Elastic Modulus | ≥3.5 GPa |
| Color | Gray/ Customized | Melting Point | 160-170℃ |
| Length | 38-60mm/ Customized | Acid andAlkali Resistance | High |

# Black Twisted Bundle PP Fiber

## Introduction

The Black Twisted Bundle PP Fiber is a high-tensile, twisted bundle PP polypropylene fiber specifically designed for concrete reinforcement. It's manufactured using a unique technology that employs PP as the main raw material. This type of fiber is used in concrete or mortar to prevent micro-cracks due to temperature changes, plastic, and dry shrinkage, thereby enhancing the concrete's resistance to cracks, permeability, and impact.

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| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Composition | 100% Virgin Polypropylene | Tensile Strength | ⩾400 MPa |
| Fiber Type | Twisted Bundle PP Round Fiber | Elastic Modulus | ⩾3500 MPa |
| Color | Gray/ Black | Elongation | 20–25 % |
| Diameter | 0.8 mm | Melting Point | 160–170 ℃ |
| Length | 38–60 mm | Acid and Alkali Resistance | High |

## Application

# 05 Polyester Fiber

## High Tensile Strength Polyester Fiber

## Introduction

High Tensile Strength Polyester Fiber plays an important role in the construction field. This tiny yet powerful material is cleverly integrated into concrete structures, giving buildings greater strength and durability. It can not only effectively control cracks in concrete and resist the effects of temperature changes and shrinkage stress, but also improve the tensile properties of concrete and make the building structure more stable.

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|---|---|
| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters |
|---|---|
| Composition | Organic Dibasic Acids And Glycols |
| Fiber Type | Polyester Fiber |
| Length | 3–20mm |
| Elongation | 13–18% |
| Elastic Modulus | ⩾1100MPa |

# Normal Tensile Strength Polyester Fiber

## Introduction

Normal tensile strength polyester fiber provides a reliable solution for the performance improvement and maintenance of concrete structures. Adding normal tensile strength polyester fiber to concrete can significantly improve the tensile strength and crack resistance of concrete, thereby extending the service life of the concrete structure and reducing maintenance costs.

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|---|---|
| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Composition | Organic Dibasic Acids And Glycols | Elongation | 18–25% |
| Fiber Type | Polyester Fiber | Elastic Modulus | ⩾800MPa |
| Length | 3–20mm | | |

## Application

# 06 Blended/Mix Fiber

Monofilament
&
Fibrillated

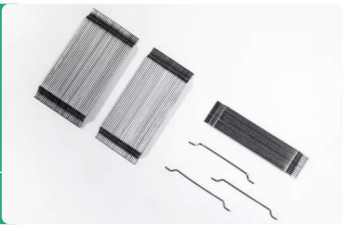

Monofilament
&
Synthetic Macrofiber

Monofilament
&
Twisted Bundle PP Fiber


Fibrillated
&
Twisted Bundle PP Fiber

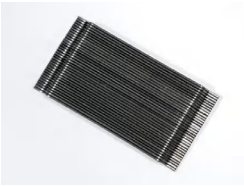
# 07 Steel Fiber

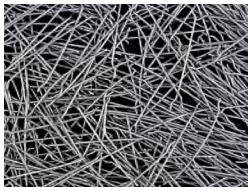
## Glued Hooked End Steel Fiber



## Introduction

Glued Hooked End Steel Fiber belongs to high performance fiber,it can reinforce the impact resistance,fatigue resistance and impermeability of concrete.





| | |
|---|---|
| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters |
|---|---|
| Length | 25–55mm/ Customized |
| Diameter | 0.6–2mm |
| Tensile Strength | ⩾1100MPA |
| Elasticity Modulus | ⩾200GPA |
| Melt Point | 1495°C |

# Hooked End Steel Fiber

## Introduction

Hooked End Steel Fiber is a high-performance material that is incorporated into traditional concrete to enhance its tensile strength, impact resistance and durability. The addition of steel fibers not only improves the toughness of concrete, but also significantly enhances its crack resistance, making it perform well under various harsh environmental conditions. Whether used for industrial floors, tunneling or bridge construction, steel fiber concrete provides excellent structural performance and long-term stability.

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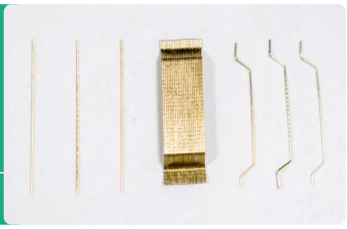
|---|---|
| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Composition | Organic Dibasic Acids And Glycols | Elongation | 18–25% |
| Fiber Type | Polyester Fiber | Elastic Modulus | ⩾800MPa |
| Length | 3–20mm | | |

## Application

# Glued Hooked End Brass Coated Steel Fiber



## Introduction

Glued Hooked End Brass Coated Steel Fiber is a high-performance reinforcement material designed to enhance the mechanical properties of concrete and shotcrete. These fibers are engineered with hooked ends to provide excellent anchorage within the concrete matrix, significantly improving tensile strength, flexural strength, and impact resistance. The brass coating on the steel fibers ensures superior corrosion resistance, making them ideal for use in harsh environments and critical structural applications. Commonly used in tunnel linings, industrial flooring, precast concrete elements, and shotcrete applications, Glued Hooked End Brass Coated Steel Fiber is the preferred choice for professionals seeking durability, reliability, and enhanced structural performance.

| | |
|---|---|
| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Appearance | Metal Color,Glued Hooked End Type | Tensile Strength | ⩾2850MPA |
| Length | 6mm/12mm | Elasticity Modulus | ⩾200GPA |
| Diameter | 0.15–0.3mm | Melt Point | 1495℃ |

## Application

# Brass Coated Micro Steel Fiber

## Introduction

Brass Coated Micro Steel Fiber is a specialized reinforcement material designed to significantly enhance the performance of concrete and other composite materials. These micro steel fibers are coated with brass, which provides superior corrosion resistance and excellent bonding with the cement matrix. The fine diameter and high tensile strength of these fibers allow for improved ductility, crack control, and impact resistance in concrete structures. Commonly used in high-performance concrete applications, including industrial flooring, tunnel linings, and precast elements, Brass Coated Micro Steel Fiber ensures long-lasting durability and structural integrity.

| | |
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| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters | Item | Parameters |
|---|---|---|---|
| Appearance | Metal Color,Glued Hooked End Type | Tensile Strength | ⩾2850MPA |
| Length | 12–14mm/ Customized | Elasticity Modulus | ⩾200GPA |
| Diameter | 0.18–0.22mm | Melt Point | 1495℃ |

## Application

# 08 Cellulose Fiber

## Cellulose Fiber

## Introduction

Cellulose fiber derived from renewable plant sources like wood and cotton, these fibers reinforce concrete, enhancing durability and reducing cracks. They also offer excellent thermal and acoustic insulation, ensuring comfort and energy efficiency in buildings.

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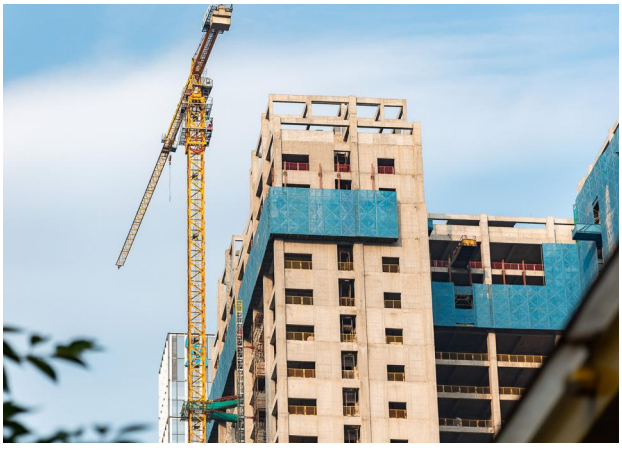
|---|---|
| Packing | Customized |
| Delivery | 7–10 working days |
| Payment Terms | T/T or L/C at sight |

## Technical data

| Item | Parameters |
|---|---|
| Composition | Cellulose |
| Type | Cellulose Fiber |
| Diameter | 15–20 μm |
| Length | 2–3 mm |
| Tensile Strength | 500–1000 MPa |
| Elastic Modulus | 8–10 GPa |
| Acid and alkali resistance | High |



Fiberegov™ by Mikem Chemical has had proven achievements in making fibers for 36 years.

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