TECHNICAL DATA SHEET

FLOREY® Copper-Plated Steel Fiber

Copper-Plated Steel Fiber

Fiber for Concrete and Mortar Reinforcement

Supplier: Luoyang Florey Import and Export Co., Ltd.

Website: www.floreyconcrete.com

Product Description

RPC copper plated microfilament steel fiber is an important component of active powder concrete.

Applications

1. RPC components: High-speed rail cover slabs and sleepers, enhancing strength, toughness, and durability.
2. UHPC projects: Bridge barriers and precast elements, improving tensile, flexural, and impact resistance.
3. High-strength concrete: Core columns and heavy-load beams, enhancing crack resistance and fatigue performance.

Product Specification

Item	Specification
Copper-Plated Microfilament / Length	12-14 mm
Copper-Plated Microfilament / Diameter	0.18-0.7 mm
Copper-Plated Microfilament / Tensile strength	≥2900 MPa
Copper-Plated End-Hooked / Length	12-14 mm
Copper-Plated End-Hooked / Diameter	0.18-0.7 mm
Copper-Plated End-Hooked / Tensile strength	≥2900 MPa
Copper-Plated Corrugated / Length	12-14 mm
Copper-Plated Corrugated / Diameter	0.18-0.7 mm
Copper-Plated Corrugated / Tensile strength	≥2900 MPa
Copper-plated corded / Length	12-14 mm
Copper-plated corded / Diameter	0.18-0.7 mm
Copper-plated corded / Tensile strength	≥2850 MPa

Guidelines for Use

• RPC components: 2%–3% by volume, equivalent to 120–180 kg/m³.
• UHPC projects: 1.5%–2.5% by volume, equivalent to 90–150 kg/m³.
• High-strength concrete: 1%–2% by volume, equivalent to 60–120 kg/m³.
• Ballistic-resistant protective structures: 3%–5% by volume, equivalent to 180–300 kg/m³. Confirm fiber selection and dosage through project-specific mix trials.

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