Shieldfibre R15

Ultra-low Carbon Steel Fiber

MICSHIELD®

TECHNICAL DATA SHEET

Description

Shieldfibre R15 is a premium steel fiber sourced from recycled end-of-life tires. Designed specifically for concrete reinforcement, it delivers high performance with a low carbon footprint. Its high tensile strength and fine diameter of 0.27 mm promote a dense fiber distribution within the concrete.

Uses

- Industrial and commercial floors, including warehouses, factories, and showrooms.
- Pavements and runways.
- Precast concrete elements.
- Shotcrete and tunneling, underground tunnels, retaining walls, and slope stabilization.
- Infrastructure applications.
- Ultra-high-performance concrete (UHPC).

Characteristics / Advantages

- Manufactured from recycled steel recovered from end-of-life tires, with an EPD value of 0.0436 kg CO_2e/kg.
- The high number of fibers per kilogram enhances fiber distribution within the concrete, supporting crack control and post-cracking ductility.
- It combines durability, safety, and cost-efficiency with sustainable performance.

Packaging

Shieldfibre R15 is supplied in 20 kg bags.

Typical Properties

Average Tensile Strength	2.700 N/mm²
Average number of fibers per kg	160.000
EPD Value	0.0436

Geometry

Length (l)	15 mm
Average Diameter (d)	0.27 mm
Aspect Ratio (l/d)	55

Dosage

Dosages of 3 – 80 kg/m³ depending on the concrete mix design and application.

Storage

Shieldfibre R15 should be protected against rain, snow and heat sources.

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