

CEM-FIL® 5325

Performance for minimal cover



Cem-FIL® 5325 direct roving has been specially designed for the weaving of fabrics, meshes/nets, and scrims. The sizing is compatible with cement-based matrices and a wide range of binders, making it well-suited for the manufacturing of meshes and for filament winding for the reinforcement of Glass Reinforced Concrete (GRC), as well as top screeds, mortars, stucco, or renders.

- ✓ Produced with Cem-FIL® AR-glass, an alkali-resistant glass specifically designed for concrete reinforcement and lives up to a 50-plus-year reputation.
- ✓ Designed to be used with concrete, mortar, and all hydraulic binder-based mix-designs.
- ✓ High elastic modulus and tensile strength provide effective reinforcement for cement/concrete matrices. It will not rot or corrode and is unaffected by UV radiation, making it suitable for use with minimal cover.

FOR MANUFACTURING OF MESHES, FILAMENT WINDING, AND PULTRUSION

Product Benefits



Performance

- Alkali-Resistant Glass*
- Enabling meshes for high performance GRC
- High tensile strength



Processing

- Excellent unwinding
- Low level of fuzz
- Compatible with coating and hydraulic binders
- Good wet-out characteristics

Application

Mesh products made from Cem-FIL® 5325 are typically used in GRC and concrete elements to reinforce near surface stress concentrations as well as in top screeds, mortars, stucco, renders, and seismic retrofitting. The wide range of roving tex enables a large variety of meshes.



Technical Characteristics

LINEAR DENSITY OF ROVING (TEX) (ISO 1889:2009)	FILAMENT DIAMETER (µm) (ISO 1888)	LOSS ON IGNITION (%) (ISO 1887:1995)	MOISTURE (%) (ISO 3344:1997)
320	14	0.80	0.50 max
640	14	0.80	0.50 max
1200	19	0.80	0.50 max
2 400	27	0.80	0.50 max

- Direct Roving
 - Electrical Conductivity: Very low
 - Specific Gravity: 2.68 g/cm³
 - Material: Alkali-resistant glass*
 - Softening Point: 860 °C–1 580 °F
- Chemical Resistance: Very high
 - Modulus of Elasticity: 72 GPa — 10 x 10⁶ psi
 - Tensile Strength: >1 000 MPa >145 x 10³ psi

*Our fibers are manufactured with high zirconia content in compliance with ASTM C1666/C1666/M-07 and EN 15422, and under the recommendations of PCI and GRCA.

Packaging & Storage

Cem-FIL® 5325 rovings are protected by a shrink-wrap polythene film, open at the top, which should not be removed when the product is in use. Rovings are packed on pallets. Cem-FIL® 5325 rovings should be stored away from heat and moisture, and in their original packaging. Optimum conditions are temperatures between 15 °C and 35 °C and humidity between 35% and 65%. If the product is stored at lower temperatures, it is advisable to condition it in the workshop for at least 24 hours before use, to prevent condensation.

Quality Standards

- Cem-FIL® 5325 fibers are manufactured under a Quality Management System approved to ISO 9001.
- Cem-FIL® fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instruction Sheet.
- CE marking and Declaration of Performance as fibers for use in concrete and mortar through European Technical Assessment ETA 17/0169 for 320 to 1200 tex.
- Verified Environmental Product Declaration according to ISO 14025 and EN 15804:2019 available upon request.

MAKE
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POSSIBLE™

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