

CEM-FIL® 5325

AR DIRECT ROVING FOR CONCRETE & MORTARS



DESCRIPTION

- **Cem-FIL® 5325** roving is made from engineered AR-glass wound filament designed to be used with concrete, mortar and all hydraulic binder-based mix-designs.
- Cem-FIL® 5325 rovings have a high Elastic Modulus and Tensile Strength making it ideal as an 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.

BENEFITS

- Alkali resistant glass*
- Excellent unwinding
- Low level of fuzz
- Compatible with coating and hydraulic binder matrices
- Easy chopping
- Very easy incorporation into the matrix
- Enhancement of GRC mechanical performance and durability
- High tensile strength

APPLICATIONS

- Cem-FIL® 5325 has been particularly designed for the weaving of fabrics, meshes/nets, scrims, etc. Its surface coating (size) is compatible with cement-based matrices
- Cem-FIL® 5325 rovings are particularly well suited to the needs of the market for the reinforcement of GRC (Glass Reinforced Cement) as well as screeds, mortars or renders

* Our fibers are manufactured with high Zirconia content in compliance with ASTM C1666/C 1666/M-07 and EN 15422 and under the recommendations of PCI and GRCA



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TECHNICAL CHARACTERISTICS

Linear density of Roving (Tex) (ISO 1889 : 2009)	Linear density of Strand (Tex) (ISO 1889 : 2009)	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.
2400	27	0.80	0.50 max.

- Assembled Roving
- Electrical Conductivity: Very low
- Specific Gravity: 2.68 g/cm³
- Material: Alkali Resistant Glass*
- Softening point: 860°C – 1580°F
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa – 10 x 10⁶ psi
- Tensile Strength: 1000–1700 MPa – 145–250 x 10³ psi

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PACKAGING AND 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 temperature 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 – CERTIFICATION

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 Instructions Sheet.

For further info please send a email to: cem-fil@owenscorning.com / www.cem-fil.com

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