



# Cem-FIL® 5325

## AR Direct Roving

### PRODUCT DESCRIPTION

Cem-FIL® 5325 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



### PRODUCT APPLICATION

Cem-FIL® 5325 has been particularly designed for the weaving of fabrics, meshes/nets, scrimms, 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.

### ADVANTAGES AND BENEFITS

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



### FEATURES (nominal values)

Linear weight of Roving (tex)	Filament Ø (µm)	Loss on Ignition (%)	Moisture (%)
ISO 1889 : 1987	ISO 1889 : 1987	ISO 1887 : 1980	ISO 3344 : 1977
320 640 1200 2400	14 14 19 27	0.8	0.1 max

- Direct Roving
- Specific Gravity: 2.68 g/cm<sup>3</sup>
- Material: Alkali Resistant Glass\*
- Softening point: 860°C • 1580°F
- Electrical Conductivity: Very low
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa • 10 x 10<sup>6</sup> psi
- Tensile Strength: 1,700 MPa • 250 x 10<sup>3</sup> psi

\* Our fibers are manufactured with high Zirconium 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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### PACKAGING, HOW TO USE 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.

Cem-FIL® 5325 rovings should be stored away from heat and moisture, and in their original packaging. The best conditions are:

- Temperature: 15°C – 35°C.
- Humidity: 35% – 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® fibers are manufactured under a quality Management System approved to ISO 9001. Additionally, the actual performance of Cem-FIL® fibers is subject to independent assessment and approval in Germany (Zulassung N° Z-3.72.1731).
- Cem-FIL® fibers meet safety standards according to European Directive 99/45/EC, 67/548/EEC and their latest amendment.

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#### Cem-FIL® Customer Service

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## OCV™ Reinforcements

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