



CEM-FIL® 61

DURABILITY AND AESTHETICS

Cem-FIL® 61 is an alkali-resistant glass fiber assembled roving specifically designed for use in the manufacture of glass fiber reinforced concrete (GRC) composites using the premix method, simultaneous spray method, or other industrial chopping processes.

- Incorporates easily and provides uniform performance for excellent finish and quality reproduction of detail throughout the form.
- Excellent durability with good mechanical properties.
- Tested and approved for use with commonly used spray equipment.

FOR GLASS FIBER REINFORCED CONCRETE COMPOSITES

Product Benefits



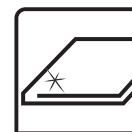
Performance

- Alkali-resistant glass
- Excellent mechanical performance
- Makes highly durable GRC elements



Processing

- Excellent unwinding
- Easy chopping
- High split-efficiency
- Safe and easy to handle
- Very easy incorporation into the matrix



Aesthetics

- Excellent reproduction of detail
- Crack control in architectural elements

Applications

Cem-FIL® 61 is used in a variety of GRC spray roving applications where durability, reproduction of detail, and complicated profiles are used, including architectural facades and manufactured concrete products.



HOW WE BUILD NOW

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)
2500 and 4800	82 and 100	1.75	0.50 max

- **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 – 10x10⁶ psi
- **Tensile Strength of Input:** >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.

Dosage

Cem-FIL® 61 rovings are used in GRC manufacturing processes with purpose-made GRC equipment. The recommended dosage in sprayed GRC is 5% by weight. The recommended dosage in premix GRC is 3% by weight.

Packaging and Storage

Cem-FIL® 61 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, either with or without carton boxes. Cem-FIL® 61 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® 61 fibers are manufactured under a quality management system approved to ISO 9001.
- Cem-FIL® 61 fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instruction Sheet.
- Verified Environmental Product Declaration according to ISO 14025 and EN 15804:2019 available upon request.
- CE-marking and Declaration of Performance (<https://www.owenscorning.com/en-us/composites/declaration-of-performance>) as fibers for use in concrete and mortar through European Technical Assessment ETA17/0169.



Americas

Owens Corning Composite Materials, LLC.
One Owens Corning Parkway
Toledo, Ohio 43659 USA
1-800-GET-PINK®

Europe

European Owens Corning Fiberglas Sprl.
166 Chaussée de la Hulpe
B-1170 Brussels
Belgium
+32 3 674 8211

Asia Pacific

Owens Corning Shanghai Regional Headquarters
40/F, Pudong Kerry Parkside,
115 Fang Dian Road, Pudong,
Shanghai, 201204, China
+86-21-6101 9666

<https://www.owenscorning.com/composites> | Composites@owenscorning.com

This information and data contained herein is offered solely as a guide in the selection of product. We believe this information to be reliable but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application of the product to determine its suitability. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe on any patent or violate any law, safety code, or insurance regulation. We reserve the right to modify this document without prior notice.

Pub no. 10024672. Cem-FIL 61_product data sheet. September 2021. English.
THE PINK PANTHER™ & © 1964–2021 Metro-Goldwyn-Mayer Studios Inc. All Rights Reserved. © 2021 Owens Corning. All Rights Reserved.