



Cem-FIL® 61

GRC Premix and Spray Roving

PRODUCT DESCRIPTION

Cem-FIL® 61 is an Alkali Resistant glass fiber assembled roving designed for use in the manufacture of glass fiber reinforced concrete (GRC) composites by both premix and simultaneous spray methods.



PRODUCT APPLICATION

In the premix process, Cem-FIL® 61 is chopped into small strands with high abrasion resistance. The fiber remains integral and this provides easy incorporation into the matrices and efficient workability. Cem-FIL® 61's new sizing technology reduces the water absorption of the fiber strand, allowing a reduction in the water content of the matrix, or an increase in the fiber content. In the spray process, Cem-FIL® 61 has good split efficiency and easy chopping with low fuzz generation. Cem-FIL® 61's hydrophobic behavior makes the mix more fluid and that ensures better compaction and easier release of trapped air.

ADVANTAGES AND BENEFITS

- Alkali resistant glass
- Good unwinding
- Easy chopping
- High split efficiency
- Safe and easy to handle
- Very easy incorporation into the matrix
- Ideal for use with complicated profiles
- Excellent reproduction of detail
- Excellent mechanical performance
- Makes highly durable GRC elements
- Suitable for both premix and spray



FEATURES (nominal values)

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	82	1.75	0.50max
	76		

- Assembled Roving
- Specific Gravity: 2.68 g/cm³
- Material: Alkali Resistant Glass*
- Softening point: 860°C • 1580°F

- Electrical Conductivity: Very low
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa • 10x10⁶ psi
- Tensile Strength: 1,700 MPa • 250 x 10³ 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

Cem-FIL[®] 61

GRC Premix and Spray Roving

HOW TO USE – DOSAGES

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. 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[®] 61 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

Sinoma Taishan
Fiberglass Inc.

Tel. : +86 538 6626827

Fax : + 86 538 6627917

Jerry.xu@ctgf.com

www.ctgf.com

Cem-FIL[®], Anti-CRAK[®] and Slurry-FIL[®] are Owens Corning brands of Alkali Resistant glass fiber reinforcements. A strategic alliance was established between Owens Corning and Taishan Fiberglass, to manufacture specialty glass products in China. With strong technical support from Owens Corning global Research and Development centers, Cem-FIL[®], Anti-CRAK[®] and Slurry-FIL[®] AR glass fiber reinforcements are jointly developed, manufactured and delivered to global market.