

PRODUCT DESCRIPTION

ARGC™ is a high integrity AR glass fiber chopped strand designed for use in dry mix systems or other premixing processes for subsequent molding into a GRC component.

ARGC™ is manufactured with high Zirconium content and has excellent properties with alkali resistance, bundle-state, stiffness, and aging-proof.

PRODUCT FEATURES

- High durability and excellent alkali resistant
- Easy incorporation, excellent bundle state
- High integrity during mixing
- Abrasion resistant strand
- High performance with low dosage
- Improves mechanical performance of GRC elements
- Safe and easy to handle

PRODUCT USES

ARGC™ is typically used to prevent cracking & improve the performance of concrete, flooring, renders or other special mortar mixes.

It may also be used in the manufacture of standard GRC components.



AR-Glass Fiber Chopped Strand - ARGC™

LIMITATIONS

If the product is stored at low temperatures, it is advisable to condition it in the workshop for at least 24 hours before use to prevent condensation.

HANDLING

Before using this or any AFZIR product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

PACKAGING

ARGC™ chopped strands are packed in individual plastic bags, water-dispersible paper bags and carton boxes.

STORAGE

ARGC™ chopped strands 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%.

STACKING

To ensure safety and avoid damage to the product, skids should not be stacked more than two high. When stacking two pallets high, care should be taken to correctly and smoothly place the top pallet.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.

TECHNICAL DATA

Specific Gravity	2.68 g/cm ³
Filament Diameter	14 μm (0.000546 in)
Electrical Conductivity	low
Chemical Resistance	high
Moisture	0.3% max
Loss on Ignition	0.55%
Softening point	860°C - 1580°F
Modulus of elasticity	72GPa - 10 x 106 psi
Tensile Strength	1,700 MPa - 250 x 103 psi
% ZrO ₂ Content	≥ 16.0
Storage Conditions	Store at 15°C – 35°C

Physical Properties - ARGC™

Name	Fiber Length (mm)
ARGC™3	3
ARGC™6	6
ARGC™12	12
ARGC™18	18
ARGC™24	24

NOTE: GAR™ is available in other fiber length by customer order

HOW TO USE

- For repair mortars, recommended dosage is in between 1 to 2%, or 25 to 50 kg/m³.
- For Premix GRC, recommended dosage is from 2.5 to 3.5% by weight.
- Fibers can be blended and bagged with dry mortar ingredients, or introduced directly to the mixer at the facility or job site.