

# ARGC™

## AR Glass Fiber Chopped Strand



Building  
&  
Transportation



Oil, Gas  
&  
Industrial



Offshore  
&  
Onshore



Water  
&  
Wastewater



### PRODUCT DESCRIPTION

CTech-LLC® alkali resistant glass fiber chopped strand (**ARGC™**) is designed for use in glass fiber-reinforced concrete (GFR) by spray-up, glass fiber reinforced concrete premix, fiber-reinforced concrete, and other cementitious based products. CTech-LLC® ARGC™ has excellent properties with alkali resistance, bundle-state, stiffness, and aging-proof.

### ADVANTAGES

- Alkali resistant glass.
- Makes highly durable GRC elements
- Suitable for both premix and spray
- Improves mechanical performance of GRC elements
- Safe and easy to handle
- Remains integral during mixing.
- Ease of incorporation even at high dosage.
- Abrasion resistant strand.

### TECHNICAL DATA

	Unit	ARGC™12	ARGC™18	ARGC™24
Fiber Diameter	Microns	13±2	13±2	13±2
Chop Length	mm	12	18	24
Linear Density	tex	76±7	76±7	76±7
ZrO <sub>2</sub> Content	%	≥16	≥16	≥16
Moisture Content	%	≤0.2	≤0.2	≤0.2
Breaking Strength	N/tex	≥0.25	≥0.25	≥0.25

### TYPICAL USES

ARGC™ is suited for the preparation of pre-bagged mixes of repair and top screed mortars. The product Also may be used in the manufacture of glass fiber reinforced concrete (GRC) composites by both premix and simultaneous spray methods.

### INSTALLATION PROCEDURE

#### SPRAYED GRC

In the manufacture of GRC by the spray process, simultaneous sprays of cement / sand mortar slurry and chopped AR glass fiber are deposited from a spray – head into or on a suitable mold. The spray

head may be hand held or mounted on a machine. The recommended dosage in sprayed GRC is 5% by weight.

#### PRI-MIXED GRC

All premix processes involve the blending together of the cement, sand, water, admixtures and chopped stands of AR fiber in a mixer prior to being formed. To produce a premix of the correct quality it is necessary to mix in two stages. The first stage is designed to produce high quality slurry to achieve the necessary workability and allow for the uniform incorporation of fiber. The second stage is the blending of fibers into the slurry. It is more convenient to carry out both stages in the same piece of equipment, but separate mixers can be used for each stage. The recommended dosage in premix GRC is 3% by weight.

### STORAGE

Unless otherwise specified, it is recommended to store ARGC™ alkali resistant chopped strands in a cool, dry area. ARGC™ must remain in packaging material until just prior to their use.

### CAUTION

All components of FRP systems may cause skin irritation and sensitization. Use of chemical resistant gloves is recommended. Avoid breathing vapors and dust. Get medical attention if you are breathing with difficulty. Resins products can cause strong eye irritation. Avoiding eye contact and Using safety goggles is necessary.

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**CTech-LLC<sup>®</sup>**

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**IMPORTANT NOTE:**

Before using any CTech-LLC<sup>®</sup> product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at [www.ctech-llc.com](http://www.ctech-llc.com).

**WARANTY:**

CTech-LLC<sup>®</sup> 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 one month of the 'date of purchase. CTech-LLC<sup>®</sup> 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 utilizing.

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