

**3B Advantex®  
Continuous Filament Mat  
for Wind**



**a benchmark product for  
composites applications  
in the wind energy industry**

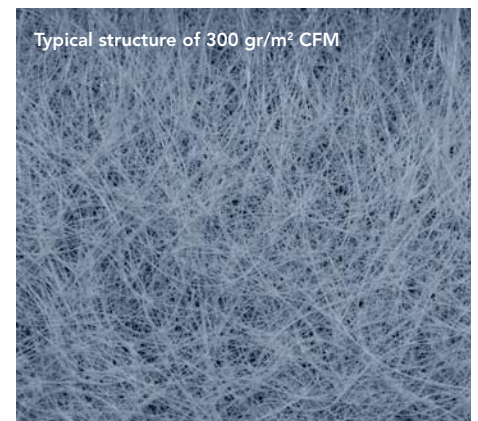
The solution for a fast infusion process with excellent flow, 3B Continuous Filament Mat is a non-woven mat made out of Advantex® glass filaments. Consisting of continuous fibres randomly oriented in multiple layers, the glass fibre is bonded with a silane coupling agent and the layers held together with a suitable binder.

The products contain an insoluble binder compatible with both unfilled or filled unsaturated polyester, vinyl ester, epoxy and polyurethane resin systems.

**Major benefits include:**

- Excellent flow-media for infusion process
- Reduced infusion time thanks to its high permeability
- Excellent wet-out and wet-through
- Excellent processing
- Multi-compatible sizing for polyester/vinylester/epoxy/polyurethane resin systems
- Excellent mechanical properties
- Excellent handling properties, easy to cut and good conformability
- Excellent weight uniformity and uniform strand integrity
- Availability in different widths, min. 55 cm up to 260 cm

3B Advantex® Continuous Filament Mat can be used either as a traditional flow media on the surface (which is removed after moulding) or as an in-situ interlaminar flow media, giving high permeability glass reinforced layer in a thick structural laminate.

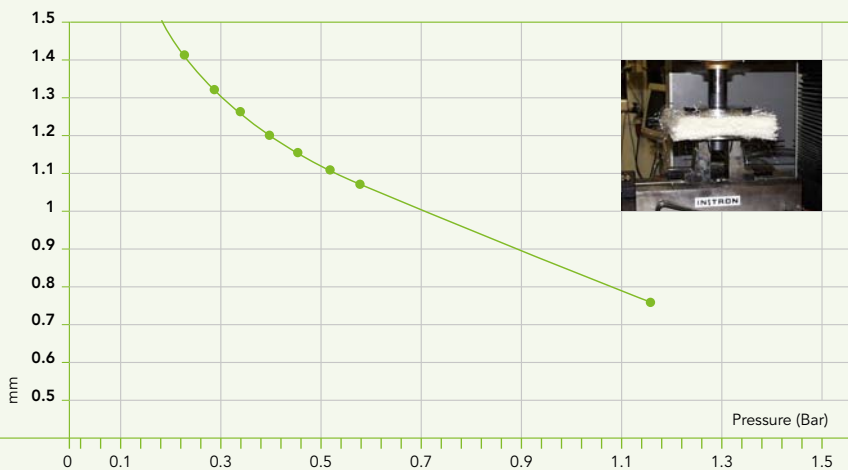


**3B Advantex® Continuous Filament Mat for wind: M8615**

Property	Weight g/m <sup>2</sup>	Width cm	Bundle density tex	Solid content
M8615	225	130-260	30	3,5
	300	130-260	30	3,5
	450	130-260	30	3,5
	600	130-260	30	3,5

# discover your fibreglass world

Thickness of 1 layer of CFM 8615 450 gr/m<sup>2</sup>



3B

## FEATURES

- Insoluble fiber
- Continuous fibre
- Improved integrity of the layers of the mat
- Softness of the mat

- High bundle linear density (tex) for a large porosity

## BENEFITS

- Can be unrolled, cut and conveyed to the mould without losing mat integrity even with large parts for the M8615 series
- Conform to complex and difficult shapes without causing wrinkles or leaving resin-rich radii, which may cause cracking
- Resist to relocation in the mould under pressure and resin flow (wash resistance)
- Little resistance to resin flow for an easy and fast wet-through, even with filled resin resulting in a high productivity

The chart describes the compressibility of one layer of 450 gr/m<sup>2</sup> CFM as a function of the compaction pressure. At typical compaction pressure used in the resin infusion process, the glass volume fraction of the Continuous Filament Mat in the laminate is less than half the volume fraction of standard Non Crimped Fabrics (or more than the double of the thickness).



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by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement.

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