

Pultursion

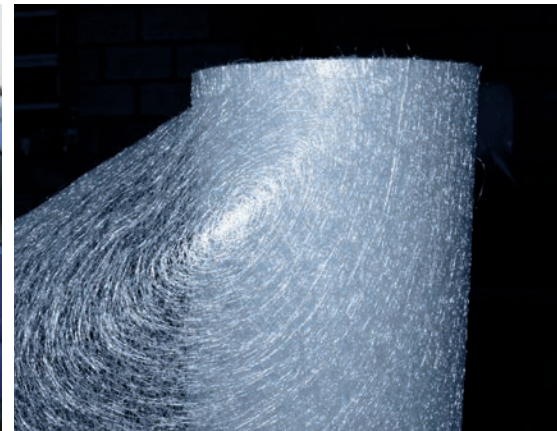
VE, UP, EP

Advantex® glass

Advantex® glass is a boron-free glass and presents significantly improved corrosion resistance across a wide range of aggressive environments. Advantex® glass is an E-CR glass in accordance with ASTM D578 and ISO 2078. This translates into important benefits for end-users over traditional E glass: longer service life, larger safety coefficients for the same design, and material savings. Traditional E-glass includes boron and often contains added fluorides. By using new manufacturing technology to eliminate these components from the glass composition, Advantex® glass has become a benchmark for integrated pollution prevention and the highest energy efficiency – all in an optimized process. 3B measures its efforts and works continually to minimize its impact on the environment and to set new standards within the global fibreglass industry. This is our commitment.

M8643

CFM for pultruded parts



Product Description

3B Continuous Filament Mat is a non-woven mat made out of ECR 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 M8643 family products contain an insoluble binder compatible with a large range of thermoset matrices like both unfilled or filled unsaturated polyester (UP), vinyl ester (VE), epoxy (EP) and

polyurethane (PU) resin systems.

The M8643 emulsion mat is ideally suited for pultrusion processes for wide, long and heavy parts but as well for narrow and complex profiles. The excellent mechanical properties provided by 3B CFM combined with the good electrical properties of the resins (i.e. UP) make the pultruded parts attractive for the electrical apparatus (high voltage), transportation industries and infrastructures equipments.

FEATURES	BENEFITS
<ul style="list-style-type: none"> · High dry strength and wet strength · Insoluble binder 	<ul style="list-style-type: none"> · For a high tearing resistance · For wash resistance · For a fast throughput production and high productivity
<ul style="list-style-type: none"> · High quality wrapping of the rolls · Rigid rolls 	<ul style="list-style-type: none"> · Easy to slit into various widths · Easy to handle and place into the die of the mould

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PRODUCT CHARACTERISTICS

Product name	Weight ⁽¹⁾ g/m ²	width ⁽²⁾ cm	Bundle density tex	Solid content %	Resin compatibility
M8643	300	130-170	20	4,25	VE, EP, UP
	450	127-170	20	4,25	VE, EP, UP
	600	125	20	4,25	VE, EP, UP

(1) other weights available upon request

(2) other widths available upon request

PACKAGING

The 3B Continuous Filament Mat is wound on a hard carton tube with an inside hole of 102 mm and an external diameter of 110 mm. A PE stretch film is wrapped around the roll to protect the material during handling and to help the slicing. All CFM rolls have 2 sides trimmed.

The outside diameter of the roll is a standard of 55 cm.

- For mat widths up to 210 mm :

6 vertical rolls per pallet

- For mat widths above 210 mm :

6 horizontal rolls per pallet

For more details on the packaging, please refer to the CFM Packaging Datasheet.

STORAGE

Storage in a cool and dry warehouse into the original packaging is formally recommended. More precisely ideal storage conditions are a temperature between 15°C and 35°C and a relative humidity comprised between 35% and 75%. If these conditions are maintained, the glass fibre product should not undergo significant changes when stored for extended periods of time. It is also strongly recommended to condition it in the workshop for at least 24 hours before use to prevent condensation. For an optimal processing we recommend to use the product in ambient conditions (20°C-23°C and a relative humidity of 60%-65%).



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or services 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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