

Foaming

PU

E-CR glass

3B E-CR glass is boron-free and presents significantly improved corrosion resistance across a wide range of aggressive environments.

3B glass is E-CR according to ASTM D578 and ISO 2078.

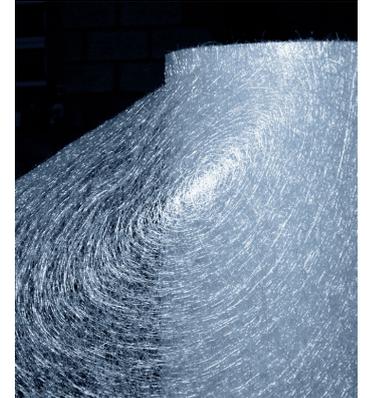
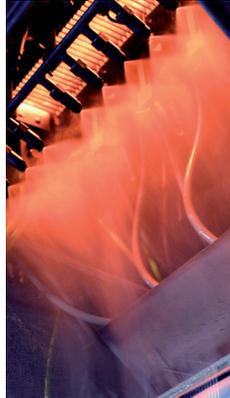
This translates into important benefits for end-users over traditional E-glass: longer service life, larger safety coefficients for the same design, and material savings. Traditional E-glass includes boron and often contains added fluorides. By using new manufacturing technology to eliminate these components from the glass composition, 3B E-CR 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.

www.3B-fibreglass.com

CM 1020

CFM for reinforced polyurethane foams



Product Description

3B Continuous Filament Mat is a non-woven mat made out of E-CR 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 CM 1020 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 CM 1020 powder mat is ideally suited for polyurethane foaming processes for the reinforcement of foam panels. The excellent mechanical properties provided by 3B CFM combined with the good opening and the easy expansion of the CM 1020 mat during foam expansion make those reinforced R-PUF panels ideal for applications like thermal insulation of liquefied natural gas carrier and onshore storage.

FEATURES	BENEFITS
Continuous fibres of E-CR glass	Provide good mechanical properties in ambient and cool temperatures Improve dimensional stability under temperature changes High resistance to corrosion in water, salt water and alkali conditions
Silky touch	Easy unrolling and lay down, good adaptability to complex shapes
Very low binder content	Fast and easy expansion during the foam generation process
Low integrity of the layers of the mat	Good distribution of the reinforcement over the thickness of the foam
Softness of the mat	Little resistance to resin flow for an easy and fast wet-through
Low bundle linear density (tex)	

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PRODUCT PORTFOLIO

Product name	Weight ⁽¹⁾ g/m ²	width ⁽²⁾ cm	Bundle density tex	Solid content %	Resin compatibility	Process
CM 1020	450	105-210	20	1,15	PU	Foaming

(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 or 118 mm depending on mat widths.

A PE stretch film is wrapped around the roll to protect the material during handling and to help the slicing. All 3B CFM rolls have 2 sides trimmed.

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

- For mat widths up to 190 cm: 6 vertical rolls per pallet
- For mat widths above 190 cm: 6 horizontal rolls per pallet

For more details on the packaging, please contact the technical person.

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%. The product should remain in its original packaging, closed.

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%).

Binani

3B the fibreglass company

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