

Hand Lay-up
Compression Moulding

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 glass fibre industry. This is our commitment.

WR 3000

Woven Roving for Unsaturated Polyester, Vinylester & Epoxy Resins









Product Description

3B Woven Roving Fabrics WR 3000 consist of continuous glass roving interlaced at warp and weft directions forming 0°/90° weave.

A proprietary sizing applied on the roving assures an excellent resin-to-glass bonding.

Corrosion resistant WR 3000 Woven Roving Fabric made of E-CR glass is specifically designed for Hand Lay-up and Compression Moulding processes. The use of Woven Roving Fabric increases bi-directional strength of products and increases impact and tear resistance. It is used in marine, railways as well as bus body building applications.

WR 3000 is used to manufacture composites moulds, boat hulls, helmets & shields, laminates and chemical tanks.

WR 3000 is tested in compliance with BS 3749 and IS 11273.

FEATURES	BENEFITS
Uniform weaving	Faster and uniform wet-out. Avoids resin rich and starved areas
Boron-free E-CR glass	High corrosion resistance
Minimal crimp	Excellent translation of glass roving properties to composite properties
Dimensional stability	Uniform and consistent products

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PRODUCT PORTFOLIO									
Product name	Mass per unit area	Roving per 100 mm		Linear density - tex (g/km)		Approx. thickness	Solid content	Moisture content	
	(g/m²)	Warp	Weft	Warp	Weft	(mm)	% by weight		
WR 3000	360	61	55	300	300	0.36	0.5	Max 0.2	
WR 3000	400	34	32	600	600	0.40	0.5	Max 0.2	
WR 3000	500	21	21	1200	1200	0.55	0.5	Max 0.2	
WR 3000	610	27	24	1200	1200	0.60	0.5	Max 0.2	
WR 3000	800	18	16	2400	2400	0.80	0.5	Max 0.2	

PACKAGING

The 3B Woven Roving Fabric is wound on a hard paper core with an inside diameter of 77 mm and an external diameter of 87 mm. Rolls are wrapped in polyethylene bags and packed in corrugated cartons (25 cm x 25 cm) having standard length. A typical pallet of 110 cm x 110 cm contains 16 cartons placed on pallet and stretch wrapped with plastic film for protection.

Each roll and pallet is identified by a label.

STORAGE

Vertical storage in a cool and dry warehouse into the original packaging is formally recommended.

Ideal storage conditions are a temperature between 15°C & 35°C and a relative humidity comprised between 35% & 85%. 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 in a packed condition 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-30°C and a relative humidity of 60%-65%).



Customer Service India

Survey No 220, Village Colvale Taluka, Bardez, Goa-403 513, India

P. +91 7038837967

3Bgoasales@3b-fibreglass.com

Customer Service Europe

Rue de Maestricht 67 4651 Battice, Belgium

P. +32 87 692211

3B-thefibreglass.com

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