

Pultrusion, Filament Winding,  
Weaving

## E-CR glass

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

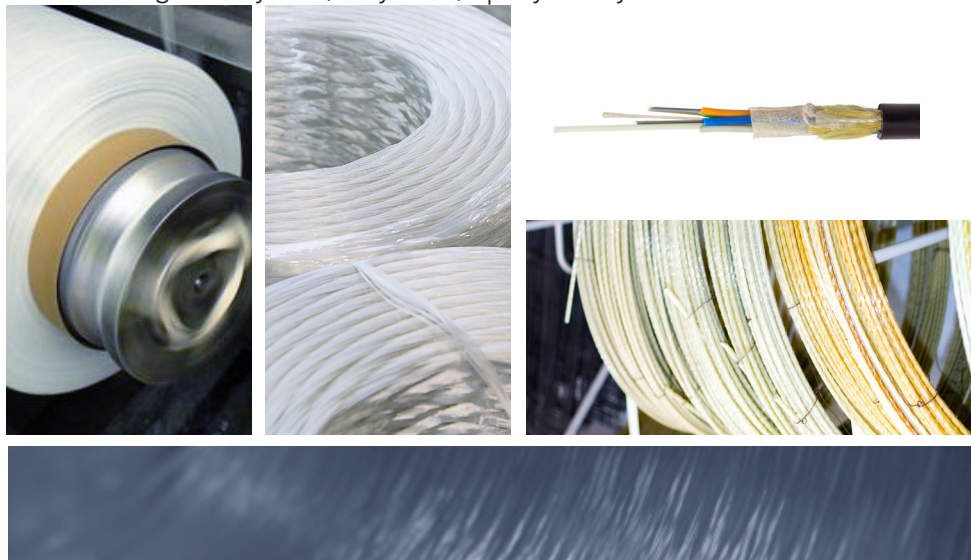
3B E-CR glass is an E-CR glass in accordance with ASTM D578 and ISO 2078.

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, 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 glassfibre industry. This is our commitment.

## SE 1010

Direct Roving for Polyester, Vinylester, Epoxy & Polyurethane Resins



### Product Description

3B Direct Rovings consist of continuous glass filaments bonded into a single strand and wound onto a bobbin shape. A proprietary sizing applied on the fibres assures excellent resin-to-glass bonding.

Corrosion resistant SE 1010 Direct Rovings made of E-CR glass are specifically designed for Pultrusion where high glass packing is essential e.g. Central Strength Member for Cables and GFRP Rebar.

The sizing of SE 1010 is uniquely designed for excellent compatibility to a range of thermoset resins with various curing

systems and to protect the fibre while processing at high speed and high glass content.

SE 1010 Direct Rovings made of E-CR glass are also used in other processes such as Filament Winding and Weaving under specific conditions.

SE 1010 is tested in compliance with BS 14020 and IS 11320.

FEATURES	BENEFITS
Boron-free E-CR glass	Environment-friendly, offering high corrosion resistance
Polyester, Vinylester, Epoxy & Polyurethane compatible	Maximum flexibility on workshops and less inventory
Excellent processing	Easy unwinding, low fuzz generation
Medium strand integrity	Good impregnation where processing speeds are high

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## PRODUCT PORTFOLIO

Product Name	Filament diameter µm	Linear Density tex (g/km)	Solid content % by weight	Moisture content % by weight
SE 1010	17	600	0.40	Max 0.20
SE 1010	17	1200	0.40	Max 0.20
SE 1010	17	2400	0.40	Max 0.20
SE 1010	24	2400	0.40	Max 0.20
SE 1010	24	4800	0.40	Max 0.20

Please contact us in case of specific requirement on tex.

## FIBRE PROPERTIES

Fibre density	Tensile Strength (ASTM D2343-08)	Tensile Modulus (ASTM D2343-08)
2.62 g/cm <sup>3</sup>	2200-2500 MPa	81 GPa

## PACKAGING

Bobbins are individually tack wrapped for protection, complete unwinding of the bobbins, improved handling and to allow optimum transfer from bobbin to bobbin (Creel-Pack).

Two pallet configurations are available:

- Bulk-Pack: standard packaging, consists of individual bobbins
- Creel-Pack: Bobbins are connected together for continuous unwinding (no bobbin handling for operators).

## STORAGE

Vertical 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 optimal processing it is recommended to use the product in ambient conditions (20°C-30°C and a relative humidity of 60%-65%).



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