

Filament Winding, Prepreg, Pultrusion, NCF, Muffler filling, ... Multi-Resin Compatible

## 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 glassfibre industry. This is our commitment.

Advantex® glass is available from 3B European facilities in Battice - Belgium and Birkeland - Norway.

## R25H

Direct Roving for Polyester, Vinylester & Epoxy 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 R25H Direct Rovings made of Advantex® glass are specifically designed for filament winding processes (continuous or discontinuous) for the manufacturing of composite pipes.

The silane sizing of R25H is designed

for excellent adhesion to thermoset resins and is also drinking water contact approved.

Also, combination of high temperature resistance of E-CR Advantex® glass and easy texturisation of R25H Direct Rovings make them ideal for muffler filling.

R25H Direct Rovings made of Advantex® glass are also used in pultrusion or weaving-knitting processes under specific conditions. Contact us for further assistance.

FEATURES	BENEFITS
Boron-free E-CR glass	High corrosion resistance, suitable for manufacturing of composite sewer pipes
Polyester, Vinylester & Epoxy compatible	Maximum flexibility on workshops
Medium strand integrity	Good impregnation in high speed filament winding processes
Approved for potable water contact	Suitable for the manufacturing of composite drinking water pipes
High thermal properties	High heat resistance, suitable for muffler-filling applications

# R25H

Direct Roving for Polyester, Vinylester & Epoxy Resins

## PRODUCT PORTFOLIO

Product Name	Filament diameter µm	Linear Density tex (gr/km)	Bobbin type
R25H	17	1200	C
R25H	24	2400	C
R25H	24	4800	C

## FIBRE PROPERTIES

Fibre's density	2.62 g/cm <sup>3</sup>	
Fibre's CLTE	6.10 <sup>-6</sup> K <sup>-1</sup>	(ASTM D696)
Softening point	916°C	(ASTM C338)
Tensile Strength	2700-2800 MPa	(ASTM D2343-08)
Tensile Modulus	81 GPa	(ASTM D2343-08)

## PACKAGING

Bobbins are individually wrapped with stretched plastic film for protection, improved handling and to allow optimum transfer from bobbin to bobbin. Nominal weight for C bobbins is 25 kg.

Two pallet configurations are available:

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

For detailed information about bobbins, pallet weight, dimensions and layout please contact us.

## 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 it is recommended to use the product in ambient conditions (20°C-23°C and a relative humidity of 60%-65%).



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