

Filament Winding  
Multi Resins Compatible  
Texturisation

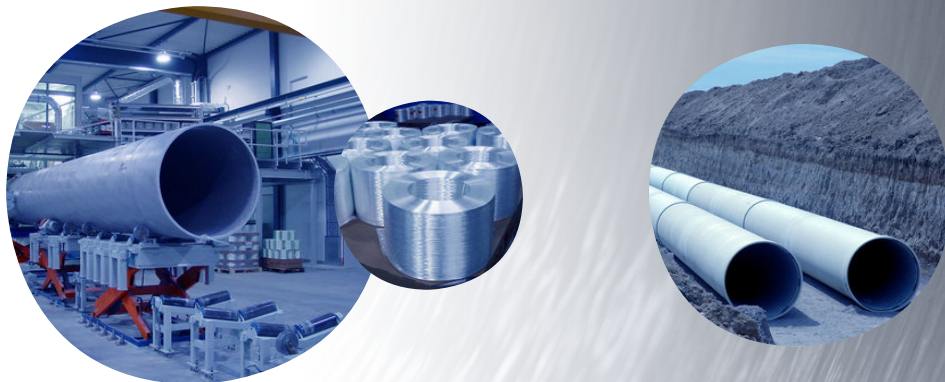
## Advantex® glass

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, E-CR 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.

## R25H Direct Rovings



### 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 & Epoxies compatible. Medium strand integrity.	Maximum flexibility on workshops. Good impregnation in high speed filament winding processes.
Potable water contact approved.	Suitable for manufacturing of composite drinking water pipes.
High thermal properties.	High heat resistance, suitable for muffler filling applications.
Globally available.	Get flexibility in manufacturing the highest quality wherever you are.

# R25H Direct Rovings

## PRODUCT PORTFOLIO & GENERAL PROPERTIES

Product name	Filament diameter µm	Linear density tex (gr/km)	Bobbin type	Packaging
R25H	17	600	C & V	See below
R25H	17	1200	C	See below
R25H	21	1800	C	See below
R25H	24	2400	C	See below
R25H	24	4800	C	See below
Fibre's Density	2.62 gr/cm <sup>3</sup>			
Fibre's CLTE	6 10 <sup>-6</sup> °K <sup>-1</sup>	(ASTM D696)		
	916°C	Softening point (ASTM D338)		
Tensile Strength	2700-2800 MPa	(ASTM D2343-08)		
Tensile Modulus	81-83 GPa	(ASTM D2343-08)		

## PACKAGING

Bobbins are individually wrapped with a stretched plastic film for protection, improved handling and to allow optimum transfer from bobbin to bobbin.

Nominal weights of C and V bobbins are respectively 25 kg and 34 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 informations on bobbins, on pallet's weight, dimensions and layout, please contact us.

## STORAGE

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

If this condition is 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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