

Binani

3B the fibreglass company

B R A J B I N A N I G R O U P

Knitting
Epoxies 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 fibreglass industry. This is our commitment.

SE 1500 Direct Rovings



Product Description

3B Direct Rovings consist of continuous filaments bonded into a single strand and wound onto a bobbin shape. A proprietary sizing applied on the fibres assures an excellent resin-to-glass bonding. SE1500 Direct Rovings made of Advantex® glass are specifically designed for knitting process. The sizing of SE1500 Direct Rovings is specifically designed for excellent adhesion with epoxy systems.

(It is not recommended to use these Direct Rovings with non-epoxy resin systems). SE1500 Direct Rovings made of Advantex® glass present high level of fatigue performances. They are approved by Germanischer Lloyd for manufacturing of windmill blades. SE1500 Direct Rovings made of Advantex® glass are also in use in filament winding process under specific conditions; contact us for further assistance.

FEATURES	BENEFITS
Boron-free E-CR glass	High corrosion resistance
Epoxies compatible	High fatigue performances of epoxy composites Approved by Germanischer Lloyd for windmill blades manufacturing.
Medium strand integrity	High productivity and quality in knitting operations
Globally available	Get flexibility in manufacturing the highest quality wherever you are.

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SE 1500 Direct Rovings

PRODUCT PORTFOLIO & GENERAL PROPERTIES (PLEASE CONTACT US FOR ADDITIONAL INFO ON PROPERTIES)

Product name	Filament diameter µm	Linear density tex (gr/km)	Bobbin type	Packaging
SE1500	16	300	R	see below
SE1500	17	600	C	see below
SE1500	17	1200	C	see below
SE1500	17	2400	C & G	see below
SE1500	17	2400	C & G	see below
SE1500	24	4800	C	see below
Fibre's density	2.62 gr/cm ³			
Fibre's CLTE	6.10 ⁻⁶ K ⁻¹	(ASTM D696)		
Tensile Strength	2400-2500 MPa	(ASTM D2343-08)		
Tensile Modulus	81-83 GPa	(ASTM D2343-08)		
Fatigue	Uni-directional	(ISO 13003)	For 10 ³ < N < 2.10 ⁵	
Tension-Tension (R=0.1)	17 µm - 1200 tex MGS L135i infused (Wf=79%)		S = 2369 N ^{-0.1398} S : Max Stress N : cycles	

PACKAGING

Bobbins are individually wrapped with stretched plastic film for protection, improved handling and to allow optimum transfer from bobbin to bobbin. Nominal weights for R, C, and G bobbins are respectively 21, 25 and 40 kg. Two pallet configurations are available:

- Bulk-Pack: standard packaging, consists of individual bobbins
- Tack-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. 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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or services described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement.

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