

Filament Winding,
Pultrusion, Weaving

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.

SE 1043

Direct Roving for Unsaturated Polyester, Vinylester, Epoxy & Polyurethane Resins



Product Description

3B Direct Roving SE 1043 consists of continuous glass filaments bonded into a single strand and wound into a bobbin shape without twist.

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

Corrosion resistant SE 1043
Direct Roving made of E-CR glass

is specifically designed for the manufacturing of composite pipes and underground and chemical tanks using a filament winding process.

SE 1043 is also used in pultrusion to manufacture profiles and in weaving-knitting processes.

SE 1043 is tested in compliance with BS 14020 and IS 11320.

FEATURES	BENEFITS
Low fuzz formation	Minimal damage to fibre and higher mechanical properties
Boron-free E-CR glass	Environment-friendly, offering high corrosion resistance
Good resin impregnation	Uniform and consistent product
Even tension	Easy unwinding while processing

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PRODUCT CHARACTERISTICS

Product name	Filament diameter µm	Linear density - tex (gr/km)	Solid content % by weight	Moisture content %
SE 1043	16	300	0.5	max 0.2
SE 1043	17	600	0.5	max 0.2
SE 1043	17	1200	0.5	max 0.2
SE 1043	24	2400	0.5	max 0.2
SE 1043	24	4800	0.5	max 0.2
SE 1043	34	9600	0.7	max 0.2

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).

Each bobbin 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 and 35°C and a relative humidity comprised between 35% and 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 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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