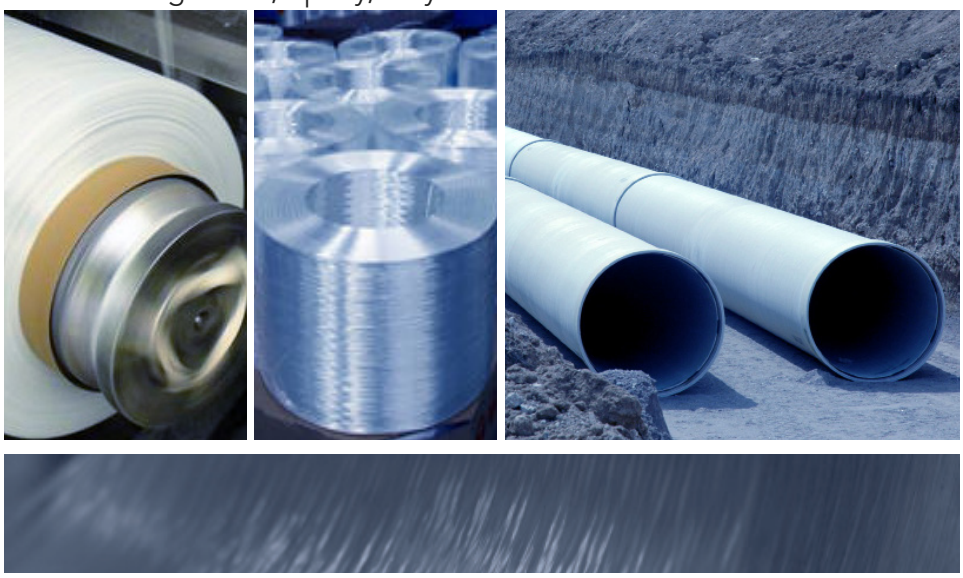
Binani 3B the fibreglass company

BRAJ BINANI GROUP

datasheet

# SE 1043

Direct Roving for UP, Epoxy, Vinylester & PU Resins



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.

www.3B-fibreglass.com

## Product Description

3B Direct Roving SE 1043 consists of continuous glass filaments bonded into a single strand and wound onto 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 composites pipes and underground & chemicals tanks.

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 | 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 | 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).

Nominal weights of bobbins vary from 10 to 22 kg. A pallet of size 92cm x 110cm contains 48 bobbins. A 110cm x 110cm pallet contains 64 bobbins. They are stretch wrapped with plastic film for protection.

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

Binani 3B the fibreglass company

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