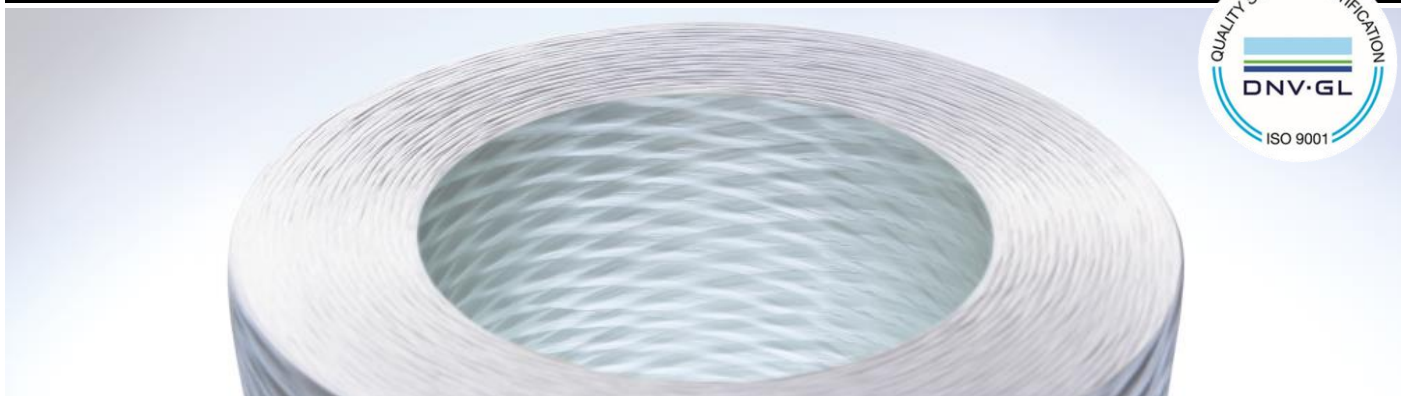


WINDSTRAND® 2000 TYPE 30® ROVING

FOR BLADE DESIGN OPTIMIZATION / DNV-GL CERTIFIED



DESCRIPTION

■ Glass description

Advantex® corrosion resistant glass fibers which combines the electrical and mechanical properties of traditional E-glass with the acid corrosion resistance of E-CR glass

■ Resin compatibility: epoxy compatible sizing

BENEFITS

- DNV-GL certified in all manufacturing locations – 100 thru 4800 Tex
- The WindStrand®2000 Roving silane sizing is specially designed for fast wet-out, good processing and handling characteristics, and superior laminate performance in epoxy resins
- Global production – globally available
- Enhanced 90° properties
- Operation at increased FVF (Fiber Volume Fraction) levels
- WindStrand® 2000 chemistry provides superior shelf life stability in hot/humid storage environments



APPLICATIONS

WindStrand® 2000 Roving is designed to optimize performance and design for wind turbines in all on-shore, off-shore locations.

WindStrand® 2000 Roving is DNV-GL Certified in all manufacturing locations – 100 thru 4800 Tex.



WINDSTRAND® 2000 TYPE 30® ROVING FOR WIND ENERGY

FOR BLADE DESIGN OPTIMIZATION

TECHNICAL CHARACTERISTICS (Single-End Roving)

Product offerings WindStrand® 2000 Roving Typical uni-directional laminate properties (Glass Vf 55%)		
Tensile Strength 0 degree Ultimate Avg	987 Mpa	ISO 527-5
Tensile Modulus 0 degree Ultimate Avg	44.3 Gpa	ISO 527-5
Tensile Strength 90 degree Ultimate Avg	58 Mpa	ISO 527-5

WindStrand® 2000 Roving is globally available in 100-4800 Tex.

PACKAGING

Rovings are available in a single-end internal-pull package. Each pallet weighs approximately 1 ton. Pallets are stretch wrapped for load stability. All doffs are wrapped with Tack-Pak™ for protection and to aid package runout and transfer. Full doffs are approximately 20-21 kg (45 lb.) and they can be packaged in bulk or Creel-Pak® format.

Standard Package:

- Cylindrical bobbin without tube, Outside Diameter (OD) \pm 270mm, height 260 – 300 mm.
- Partial bobbins have smaller diameter.
- Max bobbin weight approximately 21kg. 600 Tex and greater.
- Bobbin covered by a Tack-Pack™ film.

Pallet:

- Size: 1150 x 1150mm, 4 ways entry.
- 16 bobbins (max OD) per layer. Pallets are 3 or 4 tiers high
- Pallet is stretch-wrapped.

Identification:

- Bobbin label (each bobbin).
- Four pallet labels, one on side of the pallet.

STORAGE

Glass fiber products must remain in the packaging material until just prior to use. It is recommended to bring material in the workshop place at least 24 hours prior to use. WindStrand® 2000 roving should be stored in a dry area. To insure optimal performance, retesting is recommended for products stored more than two years from the initial production. The packaging system is designed to allow stacking of two pallets. When stacking two high, care should be taken to place the top pallet correctly and smoothly. Owens Corning is not responsible for any damage resulting from stacking pallets higher than two high.

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