



# WINDSTRAND® 2000 TYPE 30® ROVING

## OPTIMIZED DESIGN, HIGH PERFORMANCE

Windstrand® 2000 features a powerful combination of optimized design and reliability for longer, lighter blades. Windstrand® 2000 delivers high weaving efficiencies. The product allows blades to operate in extreme environments at reduced operating costs.

- Windstrand® offers resin compatibility with epoxy compatible sizing.
- Produced with patented Advantex® corrosion resistant E-CR glass by Owens Corning.

### FOR BLADE DESIGN OPTIMIZATION

#### Product Benefits

- Enhanced 90° properties.
- High weaving efficiency for strong blades.
- Operation at increased Fiber Volume Fraction (FVF) levels.
- DNV-GL certified at all manufacturing locations (100-4800 Tex).

#### Applications

Optimized design for wind turbines in all on-shore and off-shore locations.



#### Technical Characteristics (Single-End Roving)

PRODUCT OFFERINGS WINDSTRAND® 2000 ROVING	NOMINAL FILAMENT Ø	NOMINAL TEX (GLASS+SIZING) G/KM	TEX G/KM		% SOLIDS		
			TEX USL	TEX LSL	USL	NOM	LSL
100 Tex	13µm	100 Tex (4961 yd/lb)	115	85	0.85	0.65	0.45
200 Tex	13µm	200 Tex (24801 yd/lb)	218	182	0.85	0.65	0.45
300 Tex	13µm	300 Tex (1654 yd/lb)	324	276	0.85	0.65	0.45
600 Tex	17µm	600 Tex (827 yd/lb)	645	555	0.67	0.55	0.43
1200 Tex	17µm	1200 Tex (413 yd/lb)	1290	1110	0.67	0.55	0.43
2400 Tex	17µm	2400 Tex (207 yd/lb)	2580	2220	0.67	0.55	0.43
2400 Tex	24µm	2400 Tex (207 yd/lb)	2580	2220	0.67	0.55	0.43
4800 Tex	24µm	4829 Tex (103 yd/lb)	5191	4467	0.75	0.60	0.43

**Product Availability**  
(Standard Reference)

Windstrand® 2000 is available all regions.

**Packaging**  
(Standard Reference)

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 run-out 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) ±270mm, height 260-300mm.
- Partial bobbins have smaller diameter.
- Max bobbin weight approximately 21kg. 600 Tex and greater.
- Bobbin covered by a Tack-Pack™ film.

**Pallet:**

- Size: 1150x1150mm, 4 ways entry.
- 16 bobbins (maxOD) per layer. Pallets are 3 to 4 tiers high.
- Pallet is stretched-wrapped.

**Identification:**

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

**Storage**  
(Recommended)

Glass fiber products must remain in the packaging material until just prior to use. It is recommended to bring material into a workshop area at least 24 hours prior to use. WindStrand® 2000 roving should be stored in a dry area with ambient temperature optimally from 8°C to 26°C and relative humidity 70% or less. 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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