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

<table>
<thead>
<tr>
<th>PRODUCT OFFERINGS</th>
<th>NOMINAL FILAMENT Ø</th>
<th>NOMINAL TEX (GLASS+SIZING) G/KM</th>
<th>TEX G/KM</th>
<th>% SOLIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WINDSTRAND® 2000 ROVING</td>
<td>100 Tex</td>
<td>100 Tex (4961 yd/lb)</td>
<td>USL 115</td>
<td>USL 85</td>
</tr>
<tr>
<td>WINDSTRAND® 2000 ROVING</td>
<td>200 Tex</td>
<td>200 Tex (4961 yd/lb)</td>
<td>USL 218</td>
<td>USL 182</td>
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<tr>
<td>WINDSTRAND® 2000 ROVING</td>
<td>300 Tex</td>
<td>300 Tex (1654 yd/lb)</td>
<td>USL 324</td>
<td>USL 276</td>
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<tr>
<td>WINDSTRAND® 2000 ROVING</td>
<td>600 Tex</td>
<td>600 Tex (827 yd/lb)</td>
<td>USL 645</td>
<td>USL 555</td>
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<tr>
<td>WINDSTRAND® 2000 ROVING</td>
<td>1200 Tex</td>
<td>1200 Tex (413 yd/lb)</td>
<td>USL 1290</td>
<td>USL 1110</td>
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<tr>
<td>WINDSTRAND® 2000 ROVING</td>
<td>2400 Tex</td>
<td>2400 Tex (207 yd/lb)</td>
<td>USL 2580</td>
<td>USL 2220</td>
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<tr>
<td>WINDSTRAND® 2000 ROVING</td>
<td>4800 Tex</td>
<td>4829 Tex (103 yd/lb)</td>
<td>USL 5191</td>
<td>USL 4467</td>
</tr>
</tbody>
</table>
Windstrand® 2000 is available all regions.

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 (max OD) per layer. Pallets are 3 to 4 tiers high.
- Pallet is stretched-wraped.

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

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.