Windstrand® 3000A combines high weaving efficiencies and increased tensile Modulus at 0° for lighter blades and reliable performance. Blades utilizing Windstrand® 3000A are capable of operating in extreme environments due to its optimized design.

- Windstrand® 3000A is compatible with epoxy resin.
- Produced with H-glass, specially designed for applications that require high Modulus and long fatigue life.
- DNV-GL Quality system certified in all manufacturing locations.

**Benefits***

- 0° fiber Modulus greater than 88 GPa
- Enhanced 90° properties
- High weaving efficiency for strong blades
- Operation at increased Fiber Volume Fraction (FVF) levels
- Lighter blades: 3-6% blade weight reduction

*Owens Corning internal tests; or external tests by designer, depending on application, 2013

**Applications**

Optimized design for wind turbines in all on-shore and off-shore locations.
- Helping with high performance designs of Spar Cap, Shell and Root.
- Production of longer and lighter blades help in especially low wind areas.

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

<table>
<thead>
<tr>
<th>PRODUCT OFFERINGS WINDSTRAND® 3000A</th>
<th>NOMINAL FILAMENT DIAMETER (µm)</th>
<th>LINEAR DENSITY TEX (G/KM) ISO 1889</th>
<th>SOLIDS (%) ISO 1887</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 Tex</td>
<td>13</td>
<td>300 ± 15</td>
<td>0.65 ± 0.20</td>
</tr>
<tr>
<td>600 Tex</td>
<td>17</td>
<td>600 ± 30</td>
<td>0.55 ± 0.12</td>
</tr>
<tr>
<td>1200 Tex</td>
<td>17</td>
<td>1200 ± 60</td>
<td>0.55 ± 0.12</td>
</tr>
<tr>
<td>2400 Tex</td>
<td>17</td>
<td>2400 ± 120</td>
<td>0.55 ± 0.12</td>
</tr>
</tbody>
</table>
This product is available in China only.

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 19 kg (40 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 must not exceed 19kg.
- Bobbin covered by a Tack-Pak™ film.

**Pallet:**
- Size: 1150 x 1150mm, 4 ways entry.
- 16 bobbins (ma x 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.

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