

# WINDSTRAND® 3000 SINGLE-END ROVING

## Lighter blades, higher performance



Type 30® Windstrand® 3000 combines high weaving efficiencies and increased tensile modulus at 0° for lighter blades and reliable performance. Blades utilizing Windstrand® 3000 are capable of operating in extreme environments due to its optimized design.

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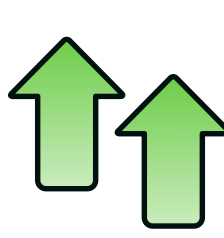
Produced with H-glass, specially designed for applications that require high modulus and long fatigue life.
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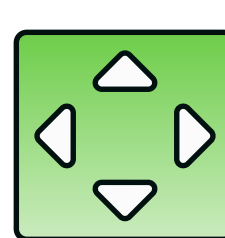
DNV-GL Quality system certified in all manufacturing locations.
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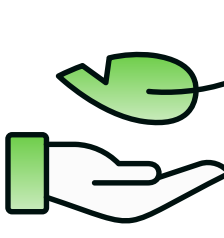
Windstrand® 3000 is compatible with epoxy resin.

### Product Benefits

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0° Fiber Modulus Greater Than 88 GPa
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Operation At Increased Fiber Volume Fraction (FVF) Levels
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Enhanced 90° Properties
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Lighter Blades: 3-6% Blade Weight Reduction
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High Weaving Efficiency For Strong Blades

\*OCF internal tests; or external tests by designer, depending on application, 2013

### Application

- 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 helps, especially in low-wind areas.

### Technical Characteristics

| PRODUCT OFFERINGS<br>WINDSTRAND® 3000 | NOMINAL FILAMENT DIAMETER (µm) | LINEAR DENSITY TEX (G/KM) ISO 1889 | SOLIDS (%) ISO 1887 |
|---------------------------------------|--------------------------------|------------------------------------|---------------------|
| 300 Tex                               | 13                             | 300 ± 15                           | 0.65 ± 0.20         |
| 600 Tex                               | 17                             | 600 ± 30                           | 0.55 ± 0.12         |
| 1200 Tex                              | 17                             | 1200 ± 60                          | 0.55 ± 0.12         |
| 2400 Tex                              | 17                             | 2400 ± 120                         | 0.55 ± 0.12         |

## Availability

High-Modulus Glass is globally available in WINDSTRAND® single-end roving form factor. Please, contact your representative for information on TEX (yield) ranges and resin systems compatibility in your region.

## 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 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): approximately 270 mm, height 260–300 mm.
- Partial bobbins have smaller diameter.
- Max bobbin weight must not exceed 19 kg.
- Bobbin covered by a Tack-Pak® film.

### Pallet:

- Size: 1150 x 1150 mm, 4-way 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 each side of the pallet.

## Storage

The glass fiber products must remain in their original packaging material until the point of usage; the product should be stored in the workshop, within its original packaging, 24 hours prior to its utilization, to allow it to reach the workshop temperature condition and prevent condensation, especially during cold season. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water. It is recommended the product be used in a laminate, with resin, within 36 months of production. The packaging system is designed to allow stacking of two pallets. When stacking pallets two high, care should be taken to place the top pallet gently and aligned properly. The Original Composites & Fiberglass is not responsible for any damage resulting from stacking pallets more than two high.

**MAKE  
MORE  
POSSIBLE™**

### India (Mumbai)

7th Floor, Alpha Building,  
Hiranandani Gardens  
Powai, Mumbai - 400076  
+91 22 6668 1700

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