

WINDSTRAND® 3200
SINGLE-END ROVING

For blade design
optimization



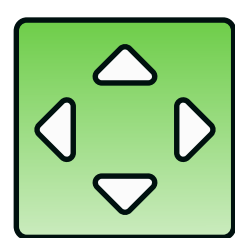
Type 30® WindStrand® H-Glass Roving has been specifically developed for applications that require high Modulus and long fatigue life, compared to traditional E-Glass fibers.

✔ Resin compatibility: multi-resin compatible sizing.

Product Benefits

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Global Manufacturing Availability
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Operation At Increased FVF (Fiber Volume Fraction) Levels
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Enhanced 90° Properties
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High Weaving Efficiency

Application

Helping with optimized design for wind turbines in all on-shore, off-shore locations.

Technical Characteristics

PRODUCT	AVG FILAMENT DIAMETER (µm)	LINEAR DENSITY (TEX)	SOLIDS CONTENT (%)	MOISTURE (%)
TEST METHOD	ISO 1888	ISO 1889	ISO 1887	ISO 3344
WS 3200 1200 tex	17	1200 (± 60)	0.50 (± 0.12)	≤ 0.10
WS 3200 2400 tex	17	2400 (± 120)	0.50 (± 0.12)	≤ 0.10

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 19–20 kg (43 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

Unless otherwise specified, it is recommended to store glass fiber products in a cool, dry area. Ideal conditions are at a temperature between 10°C and 35°C and a relative humidity between 35% and 85%. The glass fiber products must remain in their original packaging material until the point of usage. If the storage temperature is below 15°C, it is recommended that the product be stored in the workshop, within its original packaging, at least 24 hours prior to use to help prevent condensation. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water. When stored properly, there is no known shelf life to the product, and retesting is advised after three years from the initial production date to ensure optimum performance.

**MAKE
MORE
POSSIBLE™**

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WEAVING

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