



111A & 111AX SINGLE-END ROVING

Maximize strand wet-out

Type 30® 111A single-end roving is specifically designed to maximize strand wet-out and optimize processing and handling characteristics in a wide variety of applications.

✓ Produced with patented Advantex® corrosion resistant E-CR glass.

✓ Compatible with vinyl ester, polyester, and epoxy resin systems.

FOR KNITTING, WEAVING, AND FILAMENT WINDING

Product Benefits



Excellent Processing

- Features easy unwinding and excellent package run-out for uniform dispersion with low fuzz and static, which means less cleanup and better machine efficiencies.



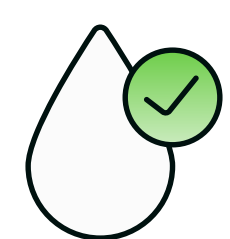
Multi-Resin Compatibility

- Designed for excellent adhesion with polyester, vinyl ester, and epoxy resin systems.
- Multi-compatibility allows a change in resin systems without the need for the time-consuming effort of changing glass in the creel.



Enhanced Service Life & Durability

- Compared to standard E-glass, Advantex® glass helps with enhanced service life in applications facing corrosion.

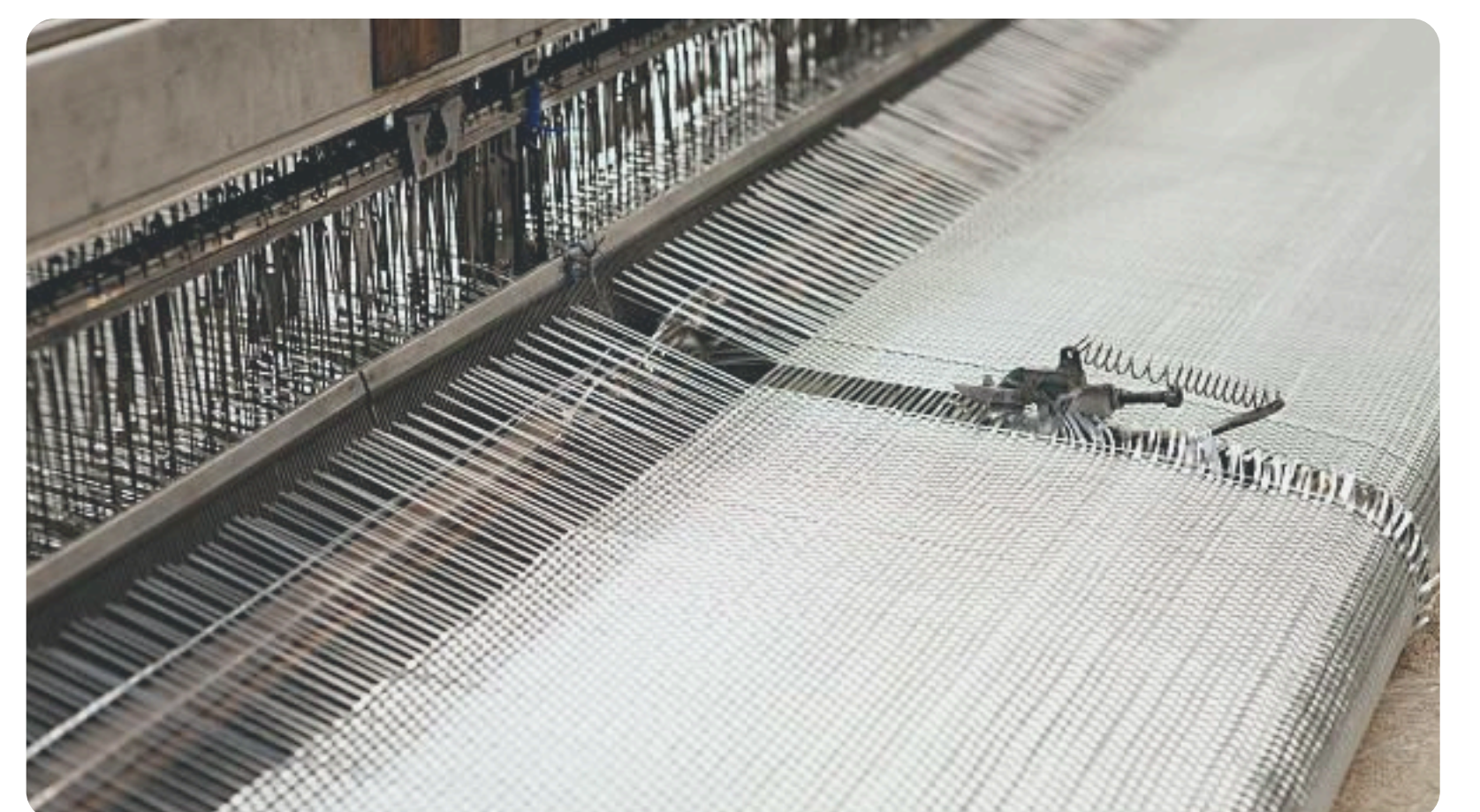


Potable Water Compliant

- Meets regulations as suitable for water distribution in both civil and industrial applications.
- Only 111AX produced at L'Ardoise and 111A produced at Birkeland meet water compliance requirements.

Application

111A is designed for versatility in several processes such as knitted or woven fabrics, inputs for multiaxial fabrics, filament winding, and pultrusion. Industries include building and construction, power generation, and consumer durable goods.



Mechanical Properties

The following data was generated using production material 111A 1200 tex - 17µm (413 yield) for ITS, and 111A 2400 tex - 24µm (207 yield) for ILSS.

STRAND TENSILES: ASTM D2343	STRENGTH (MPa)	STRENGTH (KSI)
Anhydride Epoxy Resin	2560	371
Polyester Resin	2193	318

INTERLAMINAR SHEAR STRENGTH ASTM D2344	DRY SHEAR STRENGTH (MPa)	DRY SHEAR STRENGTH (PSI)	SHEAR STRENGTH RETENTION 72- HOUR BOIL (%)
Anhydride Epoxy Resin	82.8	12010	92
Polyester Resin	62.1	9010	90

This information and data contained herein is offered solely as a guide in the selection of product. Published product values are typical performance estimates and may vary by manufacturing location, production run, testing method, and application. Products are tested as part of our quality processes and manufactured to applicable specifications. Actual performance may vary. We reserve the right to update published values, specifications, and product characteristics without notice. All values are provided for informational purposes only and do not guarantee performance. Customers are responsible for determining the suitability of the product for their intended use and should conduct appropriate testing and evaluation. Except as otherwise provided in applicable sales terms & conditions, no warranties of any kind, express or implied, including those of merchantability and fitness for a particular purpose.

Availability & Packaging

111A is produced in Europe and South America, however 111A water compliant product is produced only in Europe. Not all tex is produced in all regions. Additional weights and widths may be available upon request by contacting your sales representative.

TEX	200	300	320	410	480	600	900	1200	2400	4800
FILAMENT DIAMETER (µm)	13	16	16	13	14	17	21	17	17	24

Rovings are available in a single-end internal-pull package. Pallets are stretch wrapped for load stability. Each doff is wrapped for protection and to aid strand run-out and transfer. Pallets are available in bulk or Creel-Pak® pallet packaging format, depending on the region. More information is available from your sales representative.

Labeling

Each individual package is labeled with information, including product name, tex/yield, producing plant, and production date.

Storage

Unless otherwise specified, it is recommended that glass fiber products be stored in a cool, dry area. Recommended long-term storage conditions are temperatures between 10°C and 35°C and relative humidity between 35% and 85%. While temporary deviations may occur during storage or transportation, product performance can be confirmed through routine verification testing if exposure outside these conditions has occurred for an extended period. Glass fiber products should remain in their original packaging until the point of use. To help prevent condensation, keep product in its original, unopened packaging and allow it to naturally acclimate to the workshop temperature for at least 24 hours before opening or use. Packaging is not waterproof and should be protected from weather and other sources of moisture. Although fluctuations may occur during transportation, handling, and temporary storage, products should be maintained within the recommended storage ranges after receipt to help preserve product performance. A defined shelf life has not been established for the product when stored under recommended conditions. However, retesting is recommended after three years from the date of manufacture to help ensure optimum performance.

MAKE
MORE
POSSIBLE™

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