



SE2307 SINGLE-END ROVING

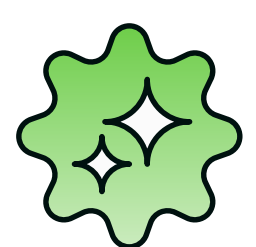
Extended service life performance

Type 30® SE2307 single-end roving is designed to provide extended service life (20+ years) and hydro-thermo stability for high performance filament-wound epoxy pipe under pressurized conditions.

- ✓ Produced with Advantex®, a market-leading, corrosion-resistant E-CR glass technology.
- ✓ Compatible with aliphatic amine, aromatic amine, and anhydride epoxy curing systems.
- ✓ Produced in manufacturing facilities certified to ISO 9001.

FOR FILAMENT-WOUND EPOXY PIPE

Product Benefits



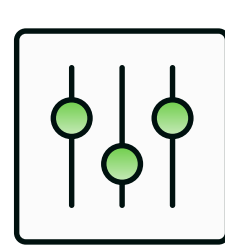
Outstanding Mechanical Properties

- Excellent properties in multiple curing systems; improved axial tensile strength, inter-laminate shear strength, and burst stress for high-performance filament-wound epoxy pipe applications.



Excellent Processing

- Fast wetting and smooth run-out combined with low fuzz properties, resulting in smoother parts and less downtime for cleanup, enabling higher efficiencies and lower manufacturing costs.



Versatility

- Designed for use in filament winding, compatible with a variety of curing systems — giving flexibility with one glass input and higher glass loading.
- Flexibility to meet pipe user requirements for high mechanical properties, durability, corrosion resistance, and low weight.



Enhanced Service Life

- Excellent hydro-thermo stability and strength retention under pressurized conditions, leading to long service life for installed pipe.

Application

SE2307 single-end roving is specifically designed to match the unique needs of the high-performance epoxy pipe market in a variety of applications: power & energy (refineries, power plants, off-shore platforms), industrial (petrochemical), and transportation (marine).



Technical Characteristics

The following data was generated using production material SE2307 — 1100 Tex - 16µm (450 Yield).

MECHANICAL PROPERTIES	STRAND TENSILES: ASTM D2343		INTERLAMINAR SHEAR STRENGTH ASTM D 2344		
	STRENGTH (MPa)	STRENGTH (KSI)	DRY SHEAR STRENGTH (MPa)	DRY SHEAR STRENGTH (PSI)	SHEAR STRENGTH RETENTION 72 HR BOIL (%)
Epoxy	2455	356	70.3	10190	97.1

Retained
94% OF ITS SHEAR STRENGTH
after 1,000 hours at 93°C

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Availability & Packaging

SE2307 is available in Asia Pacific, and South America. Tex availability varies by region.

TEX	YIELD	FIBER DIAMETER (µm)
1100 – 1200 – 2000 – 2400	450 – 413 – 250 – 207	13 - 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 runout and transfer. Pallets are available in bulk or Creel-Pak® pallet packaging format, depending on region.

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.

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