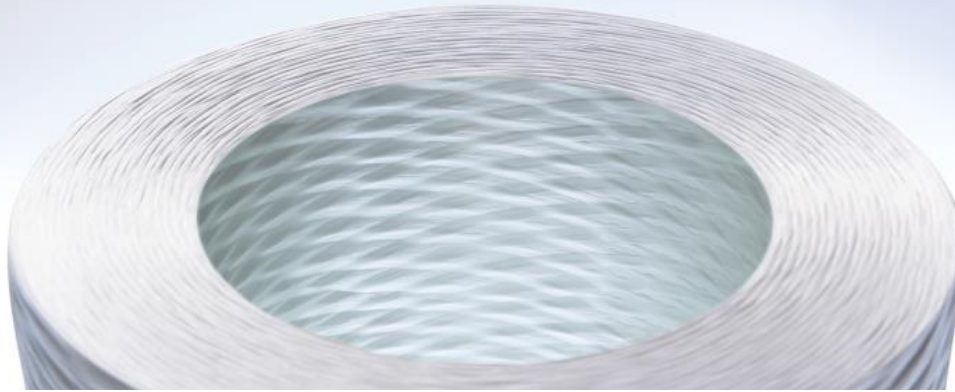


# PIPESTRAND™ S2300 SINGLE-END ROVING

FOR HIGH PERFORMANCE FILAMENT-WOUND EPOXY APPLICATIONS



## DESCRIPTION

- **PipeStrand™ S2300** is a single-end roving, designed to provide excellent hydro-thermo stability under pressurized conditions for long service life (+20 years) for installed pipes, axial tensile strength, interlaminar shear strength and burst stress for high performance filament wound epoxy applications. This new Type 30® reinforcement made with corrosion resistant Advantex® E-CR glass, provides excellent corrosion resistance and increased service life to the filament-wound pipe when installed in the field. It also helps potentially reduce material cost and waste for the pipe industry. PipeStrand™ S2300 single-end roving is produced in manufacturing facilities certified to ISO 9001. Advantex® glass offers the unique attributes of being both a boron-free standard E-glass and an E-CR glass in accordance with ASTM D578 and ISO 2078.

## BENEFITS

- Excellent hydro-thermo stability and strength retention under pressurized conditions, and long service life for installed pipe
- Designed for use in filament winding with epoxy resin, using amine, and anhydride curing systems, giving flexibility with one glass input
- Potentially minimizes downtime resulting in increased productivity, and improved manufacturing costs
- **PipeStrand™ S2300** roving provides excellent properties in both amine and anhydride
- **PipeStrand™ S2300** roving provides an excellent processing range, fast wetting and smooth pipe surface.



## APPLICATIONS

PipeStrand™ S2300 roving is specifically designed to match the unique needs of the high performance epoxy pipe market. Compatible with epoxy resin and various curing systems in the amine and anhydride families, the roving serves a variety of applications: power & energy (refineries, power plants, off-shore platforms), industrial (petrochemical), transportation (marine) and water distribution (water desalination, water treatment, sewage, etc). PipeStrand™ S2300 product can meet pipe user requirements for high mechanical properties, durability, corrosion resistance, and low weight.



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## PRODUCT AVAILABILITY – not all Tex available in all regions

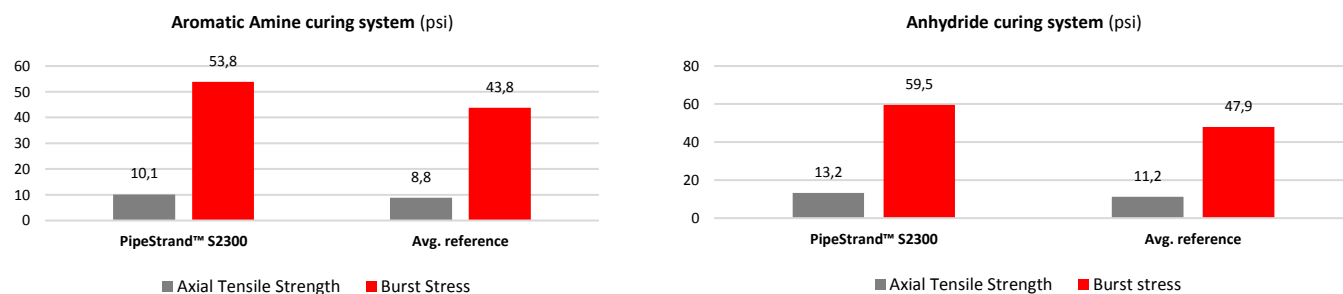
Yield	Tex
827 – 675 – 413 – 250 – 207	600 – 735 – 1200 – 2000 – 2400

## COMPATIBILITY

Product	Resin compatibility		
	Epoxy	Polyester	Vinyl ester
PipeStrand™ S2300 roving	×		

## MECHANICAL PROPERTIES

The following data was generated comparing PipeStrand™ S2300 rovings to one dozen commercially available products (that are competitive with the PipeStrand™ products). The data demonstrates both axial tensile strength (ksi) and burst stress (ksi) using ASTM D5083 and ASTM D1599, respectively. PipeStrand™ S2300 rovings show a 15-24% improvement over reference products in tested properties.



Laboratory sample: Mechanical testing lab | Resin package: Epoxy | Test method: ASTM D5083 (ATS) & ASTM D1599 (Burst)  
 Test temperature: 200°F | Test property: Axial tensile strength and burst stress | Units: ksi

## PACKAGING

Rovings are available in a single-end internal-pull package. Pallets are stretch wrapped for load stability. All doffs are wrapped with Tack-Pak™ or shrinkable film for protection during transport. More information is available in the Customer Acceptance Standards.

## STORAGE

It is recommended to store glass fiber products in a cool, dry area. The glass fiber products must remain in their original packaging material until the point of usage. The product should be stored in the workshop in its original packaging for 48 hours prior to its utilization, to allow it to reach the workshop temperature condition and prevent condensation, especially during the cold season. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water.

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