



# PIPESTRAND® S2300 SINGLE END ROVING MAXIMIZE PERFORMANCE, MINIMIZE COST

PipeStrand® S2300 is made for fabricators that want to reduce material cost, while increasing the performance of their filament wound products. Designed to increase production efficiency, while providing excellent hydro-thermal stability under pressurized conditions for longer service life.

- PipeStrand® S2300 single-end rovings are produced in manufacturing facilities certified to ISO 9001.
- Made with corrosion resistant Advantex® E-CR glass, a Type 30™ reinforcement that provides excellent corrosion resistance and increased service life in the filament-wound pipe, tank and vessel market.
- Advantex® glass is a boron-free E-glass and an E-CR glass in accordance with ASTM D578 and ISO 2078.

## FOR HIGH PERFORMANCE FILAMENT-WOUND EPOXY APPLICATIONS

### Product Benefits

#### Outstanding Mechanical Properties

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

#### Reduce Cost

Designed for use in filament winding, in both epoxy amine and anhydride curing systems – giving flexibility with one glass input and higher glass loading

#### Great Strand Wet-out

Excellent processing range, fast wetting and smooth pipe surface.

#### Long Service Life

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

### Application

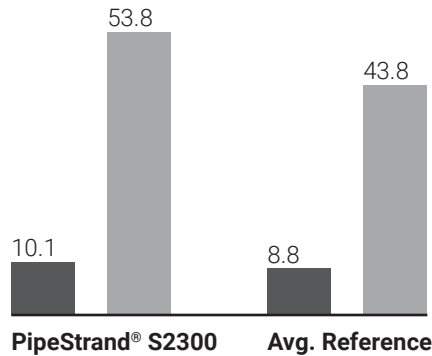


PipeStrand® S2300 roving is specifically designed to match the unique needs of the high-performance epoxy pipe market. Compatible with epoxy resin and various curing systems in the amine and anhydride families, the roving serves a variety of applications: power & energy (refineries, power plants, off-shore 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.

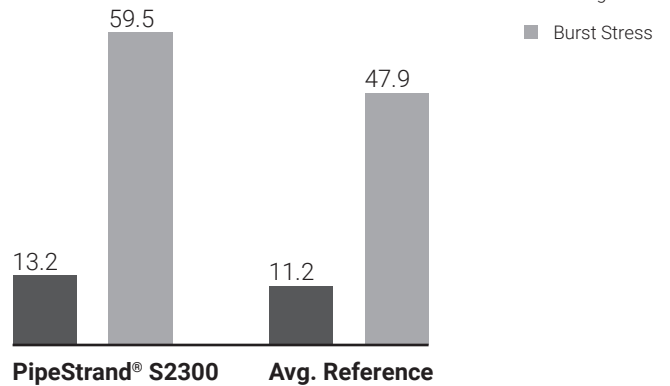
## Mechanical Properties

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.

### Aromatic Amine Curing System (psi)



### Anhydride Curing System (psi)



## Availability (Standard Reference)

TEX	YIELD	REGION AVAILABLE
600	827	EU
735	675	CIS
2000	250	NA, CIS, LA
2400	207	NA, EU, CIS

## Packaging (Standard Reference)

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.

## Labeling

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

## 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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