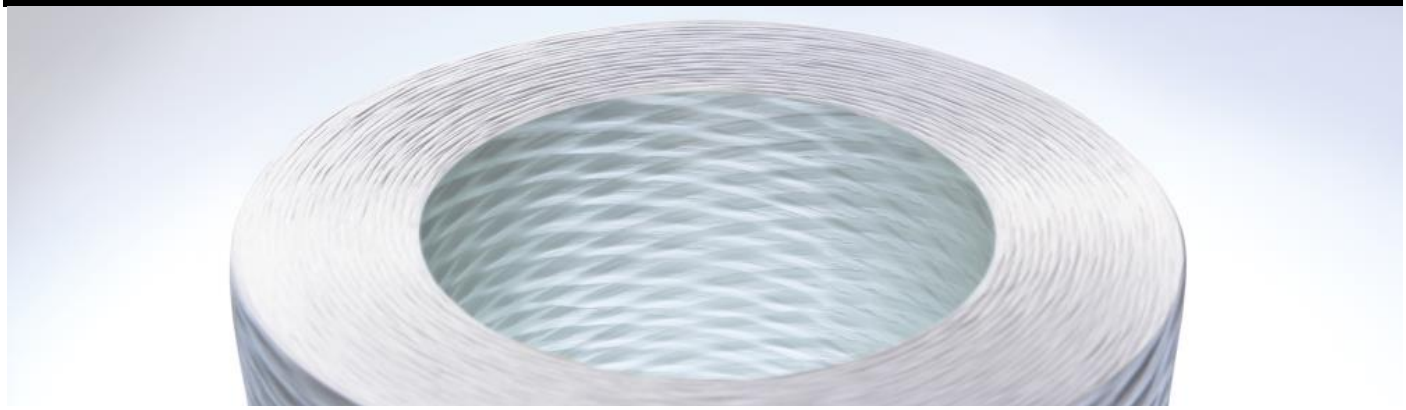
PRODUCT INFORMATION

SE 2307 TYPE 30® SINGLE-END ROVING

FOR HIGH PERFORMANCE FILAMENT-WOUND EPOXY PIPE



DESCRIPTION

- **SE 2307 Single-End Roving** is designed to provide excellent hydro-thermo stability for high performance filament wound epoxy pipe, under pressurized conditions for long installed pipe service life (+ 20 years).
- SE 2307 Type 30® Roving is made with corrosion resistant Advantex® E-CR glass, which provides superior corrosion resistance and increased field service life to pipe, compared to pipe produced with standard E-glass. SE 2307 Type 30® Roving is produced in manufacturing facilities certified in ISO 9001.
- SE 2307 is designed for fast wet out, low fuzz, smooth visual aspect, and provides superior pipe strength in epoxy resin in three different curing systems.

BENEFITS

- Excellent Hydro-Thermo stability, under pressurized and long installed pipe life
- Designed for use in filament winding with epoxy resin, using aliphatic amine, aromatic amine, and anhydride curing systems, giving flexibility with one glass input
- Excellent processing – low fuzz, fast wetting, and smooth pipe surface
- Minimizes downtime resulting in increased productivity, and improved manufacturing costs
- Superior corrosion resistance with Advantex® Glass compared to standard E-glass: Advantex® Glass provides superior corrosion resistance vs. standard E-glass, leading to longer part life and greater service life strength in applications facing corrosion
- Excellent strength retention at temperature under pressurized conditions

APPLICATIONS

SE2307 Roving is specifically designed to match the unique needs of the high performance epoxy pipe market. Compatible with epoxy resin and 3 different curing systems (aliphatic amines, aromatic amines, and anhydrides), it serves a variety of applications: power & energy (refineries, power plants, off-shore platforms), industrial (petrochemical), transportation (marine), water distribution (water desalination, water treatment, sewage, etc). SE2307 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 produced in all regions.

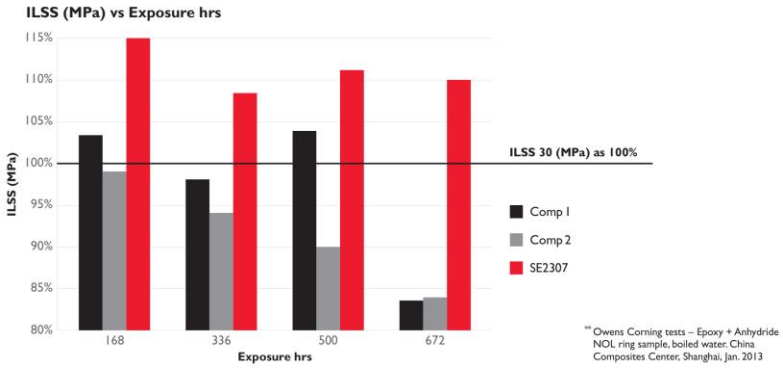
Yield	TEX
675 – 450 – 413 – 250 – 207	735 – 1100 – 1200 – 2000 – 2400

TECHNICAL CHARACTERISTICS (Single-End Roving)

The following data was generated comparing SE2307 roving vs. a commercially available epoxy pipe glass fiber for shear strength retention over time (hrs) at 93°C. SE2307 roving retained 94% of its shear strength after 1000 hrs @ 93°C vs. the commercial benchmark, which retained 70% of its shear strength under the same conditions.

Sample	Exposure, hrs.	Shear, x 1000 psi
SE 2307	168	3.84
	336	3.72
	504	3.78
	1008	3.61
Commercial	168	3.21
	336	2.90
	504	2.78
	1008	2.26

- Laboratory sample: Mechanical testing lab
- Resin package: Epoxy+MDA
- Test method: ASTM D2344
- Test type: Flex
- Test temperature: 200F
- Test property:Short beam shear strength
- Units: kpsi
- Sample treatment: Boil water
- Sample exposure period: 168, 336, 504, 1008 hrs



PACKAGING

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. More information is available from Owens Corning Customer Service and Sales.

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, within its original packaging, 48 hours prior to its utilization, to allow it to reach the workshop temperature condition and prevent condensation, especially during cold season. 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, but retesting is advised after three years from the initial production date to insure optimum performance.

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