

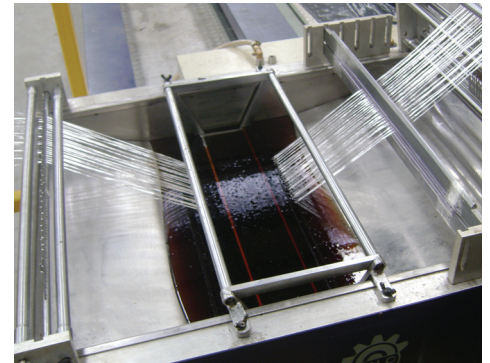
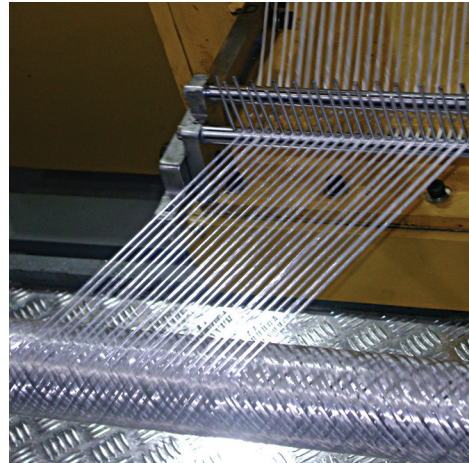
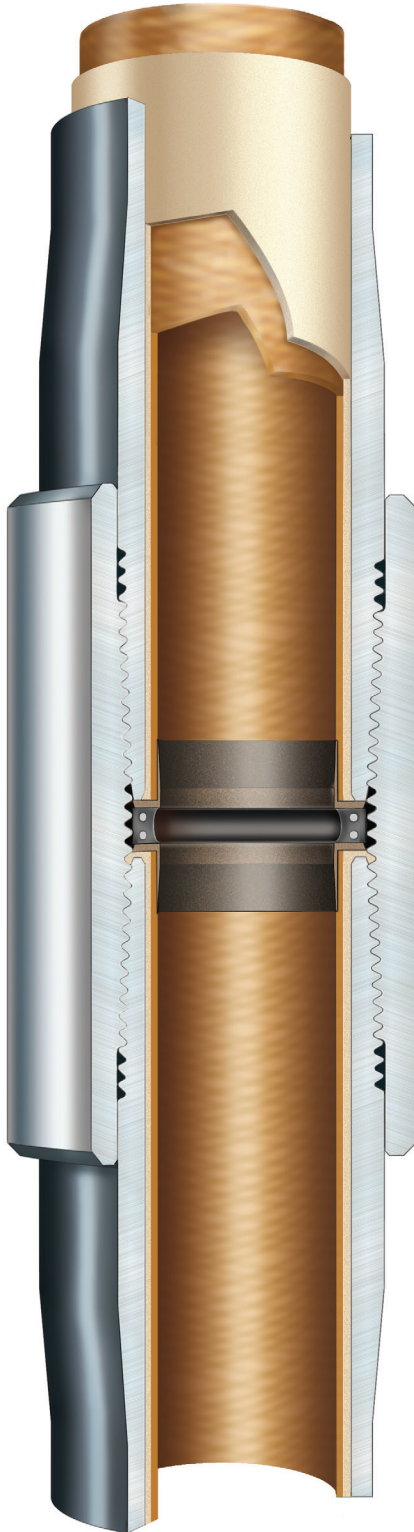


Fiberglass Lining  
External Wrapping  
Threading Services  
Field Services  
Inspection Services

**GlassBore<sup>®</sup>**  
**API**

7812 West Hwy 80 • Midland, TX 79706 • 432.617.0242 • 432.617.0244 Fax

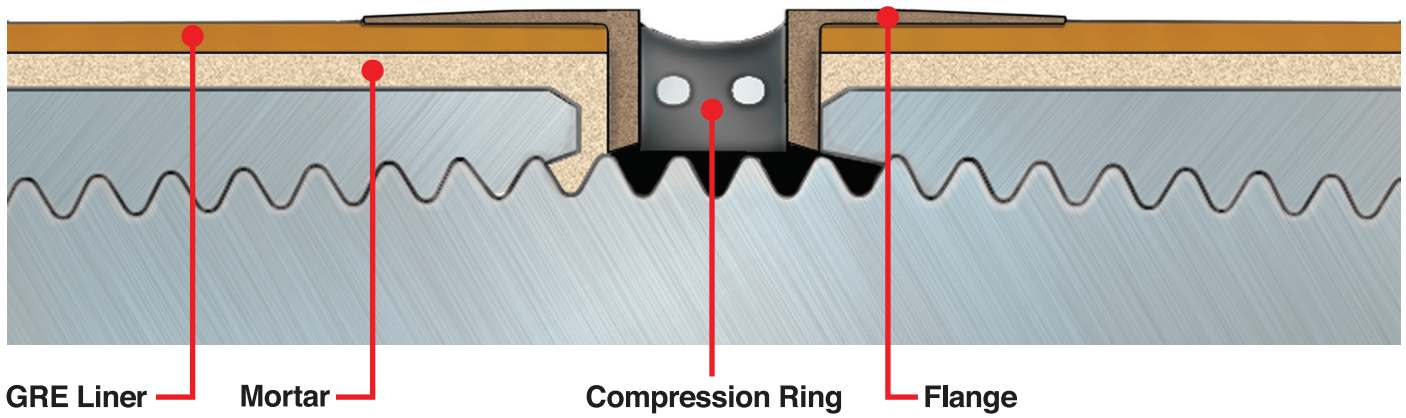
**Best-in-Class Protection for Oilfield Tubulars**  
*GlassBore<sup>®</sup> Glass Reinforced Epoxy (GRE) Lining Service*



- Premium Protection
- Cost Effective
- Composite Strength
- Durable
- Holiday Free
- Proven Technology



GlassBore<sup>®</sup> GlassLine<sup>®</sup> GlassWrap<sup>®</sup>



## Specifications

*Temperature Rating-* 250°F

*Compression Ring Material-* Glass-Filled PTFE

*Liner Material-* Glass Reinforced Epoxy

*Resin System-* Amine-Cured Epoxy

*Strength of Material-* To tensile limit of steel tubing

## Improved Flow Efficiency

The GRE liner provides a smooth friction-reduced surface to increase the flowing efficiency of produced or injected gases and fluids. As new tubing corrodes the benefit of *GlassBore*® becomes even more apparent.

**Flow Characteristics:** Hazen-Williams Coefficient = 150 • Absolute Roughness = 0.00021 inches

## Dimensions Table

| Pipe Dia. (inches) | Weight ppf | Liner ID | Flange ID | Wall Thickness | Drift (Premium) | Drift (API) |
|--------------------|------------|----------|-----------|----------------|-----------------|-------------|
| 2-1/16             | 3.25       | 1.500    | 1.420     | 0.040          | 1.300           | 1.250       |
| 2-3/8              | 4.70       | 1.810    | 1.750     | 0.040          | 1.625           | 1.600       |
| 2-7/8              | 6.50       | 2.250    | 2.200     | 0.040          | 2.070           | 1.950       |
| 3-1/2              | 9.30       | 2.750    | 2.690     | 0.045          | 2.565           | 2.440       |
| 4-1/2              | 11.60      | 3.690    | 3.600     | 0.060          | 3.475           | 3.350       |
| 4-1/2              | 12.75      | 3.690    | 3.600     | 0.060          | 3.475           | 3.350       |
| 4-1/2              | 13.50      | 3.600    | 3.510     | 0.060          | 3.380           | 3.260       |
| 5                  | 15.00      | 4.010    | 3.900     | 0.065          | 3.780           | 3.650       |
| 5                  | 18.00      | 4.010    | 3.900     | 0.065          | 3.780           | 3.650       |
| 5-1/2              | 15.50      | 4.520    | 4.400     | 0.075          | 4.275           | 4.150       |
| 5-1/2              | 17.00      | 4.520    | 4.400     | 0.075          | 4.275           | 4.150       |
| 5-1/2              | 20.00      | 4.520    | 4.400     | 0.075          | 4.275           | 4.150       |
| 5-1/2              | 23.00      | 4.395    | 4.280     | 0.075          | 4.155           | 4.030       |
| 7                  | 23.00      | 5.900    | 5.780     | 0.095          | 5.655           | 5.530       |
| 7                  | 26.00      | 5.900    | 5.780     | 0.095          | 5.655           | 5.530       |
| 7                  | 29.00      | 5.800    | 5.690     | 0.095          | 5.565           | 5.440       |
| 7                  | 32.00      | 5.800    | 5.690     | 0.095          | 5.565           | 5.440       |

Dimensions are in inches