Best-in-Class Protection for Oilfield Tubulars

GlassBore® Glass Reinforced Epoxy (GRE) Lining Service

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

Integral Connection

2-Step Connection
Pipe Dia. (inches) | Weight(ppf) | Liner ID | Flange ID | Wall Thickness | Added Weight(ppf) | Drift (Premium) | Drift (API) |
<table>
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<td>5.565</td>
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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

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

Improved Flow Efficiency-The GRE liner provides a smooth friction-reduced surface to increase the flowing efficiency of produced or injected gases and fluids. The chart illustrates nearly equivalent efficiency of flow through a string of GRE-lined premium tubing compared to that of new bare tubing in spite of the disproportionate diameter. As new tubing corrodes (Used Steel curve) the benefit of GlassBore® becomes even more apparent.

Example
Tubing = 2 3/8 Inner Premium
Hazen Williams C_Glassbore = 150
Hazen-Williams C_Steel = 120
Hazen-Williams C_Used Steel ≈ 80
Inside Diameter_Glassbore = 1.81 Inches
Inside Diameter_Steel = 1.99 Inches
String Length = 5500 Feet
Flow Rate = 1000 to 3500 bbl/day