

PERMIAN
ENTERPRISES, LTD.

Fiberline FB™
Full-Bore Tubing Liner

Acid resistant, fiberglass-epoxy linings for injection, production, and flow line tubing.

Full-Bore inside diameter gives the ability to run an expanded range of down-hole tools and equipment.

FIBERLINE FB™ lining is a superior corrosion prevention system with excellent temperature characteristics (250°F*) for corrosive flowing gas and oil wells, CO₂ injection, and other enhanced recovery applications.

Recommended Services:

Flowing gas and oil wells
CO₂ injection – WAG
Polymer injection (EOR)
Water flood
Coal vein gas production
Saltwater disposal
Refinery piping

Benefits:

Long service life
Holiday free liner
Acid resistance
Good for reconditioning pipe
Superior joint protection
Replace use of corrosion resistant alloys

Characteristics:

No pressure limits
No depth limits
Temperature: 250°F*
Full-Bore ID

FIBERLINE FB™ fiberglass internal tubing liners have been developed to meet the severe challenges and demands of a rapidly developing EOR technology. **FIBERLINE FB™** will resist high temperatures (250°F),* frequent wire line service, heavy acid treatments, reasonable decompression conditions, O₂, CO₂, H₂S gases and typical pin end and "J" section tubing corrosion. **FIBERLINE FB™** eliminates the need for expensive coupling systems or replacement rings.

PROTECTIVE MECHANISM. Because the fiberglass liner used in the **FIBERLINE FB™** system is holiday free, cemented securely in place and sealed at both ends by the **FIBERSERT™** connection system, the steel tube is totally isolated from all internal corrosive fluids. Internal corrosion is therefore fully prevented.

SETTING DEPTHS. In down-hole use, the only depth limitation is a down-hole temperature in excess of 250°F.* The added weight of the fiberglass liner is negligible and puts no additional restriction on lining depths, since the tensile limitations of steel tubing are greater than the **FIBERLINE™**.

*Additional resin systems are available that allow usage in environments in excess of 300°F.

