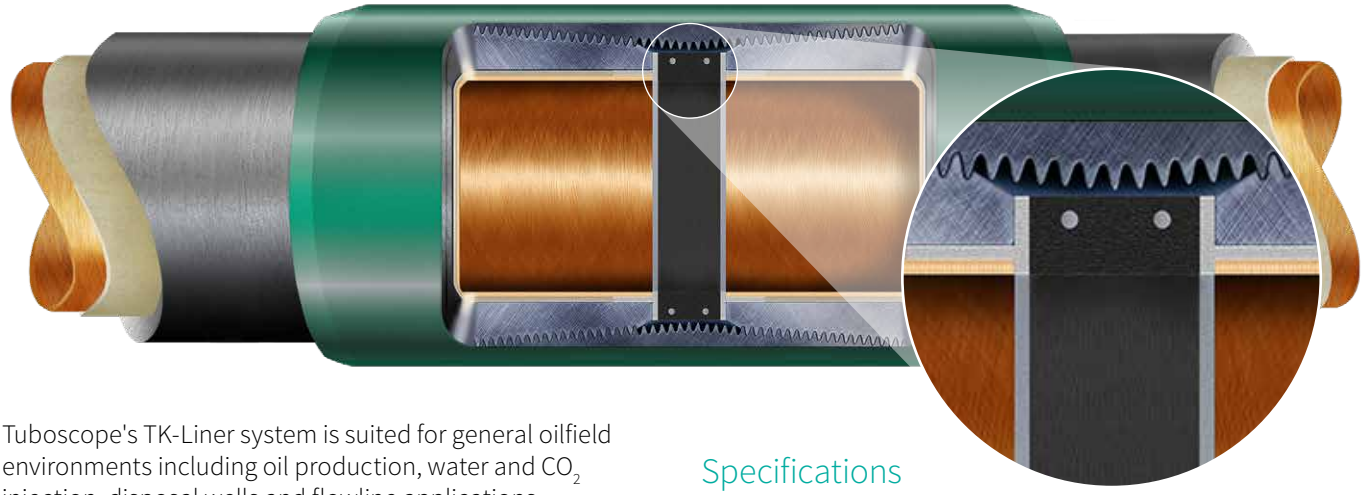
TK™-Liner System

High Performance Protective Lining System Suitable for Production and Injection/Disposal Applications. Available with a Variety of Connection Options.



Tuboscope's TK-Liner system is suited for general oilfield environments including oil production, water and CO_2 injection, disposal wells and flowline applications.

The TK-Liner system incorporates an Amine cured Glass reinforced Epoxy *(GRE)* liner, designed by Tuboscope to protect OCTG in corrosive environments.

TK-Liner is installed into the OCTG by cementing it in place using a proprietary mix of modified portland cement.

TK-Liner is not chemically bonded to the steel pipe, it is held in place by friction and by the irregular contours of the pipe ID and liner OD.

TK-Liner is also suitable for use with certain proprietary *"Premium"* connections.

Actual well conditions and fluid compositions should always be obtained and reviewed before recommending installation into Customer's pipe.

Specifications

Type	Glass Reinforced Epoxy
General Operating Information	
Temperature	250˚F
Pressure	Up to Pipe Yield
Chemical Resistance	Excellent with Most Oilfield Acids and Solvents
Primary Applications	New and Used Tubular Goods
Primary Services	CO_2 WAG, Acid Gas Disposal, Seawater Injection, Water Injection/Disposal, Flowing Production, Surface Lines

Stimulation Fluids

When stimulation fluids are changed through tubing, there is generally little effect when the fluids are flushed completely through the tubular. However, some organic acids, caustic solution, and solvents may have a detrimental effect on certain organic liner systems and should be evaluated prior to use. Exposure to hydrofluoric acid should be avoided. If stimulation fluids are left in the tubing, they can reach formation temperature and cause accelerated attack on the liner.

A Tuboscope representative should be consulted when stimulation is contemplated. Inquires about specific chemical environments should be directed to either Coating Research or Coating Technical Support.

Advantages

- Lower operating costs with new or used tubing
- Cost effective alternative to special metallurgy
- Ideal compliment for pipe reclamation programs
- Superior abrasion resistance
- Portable lining capability

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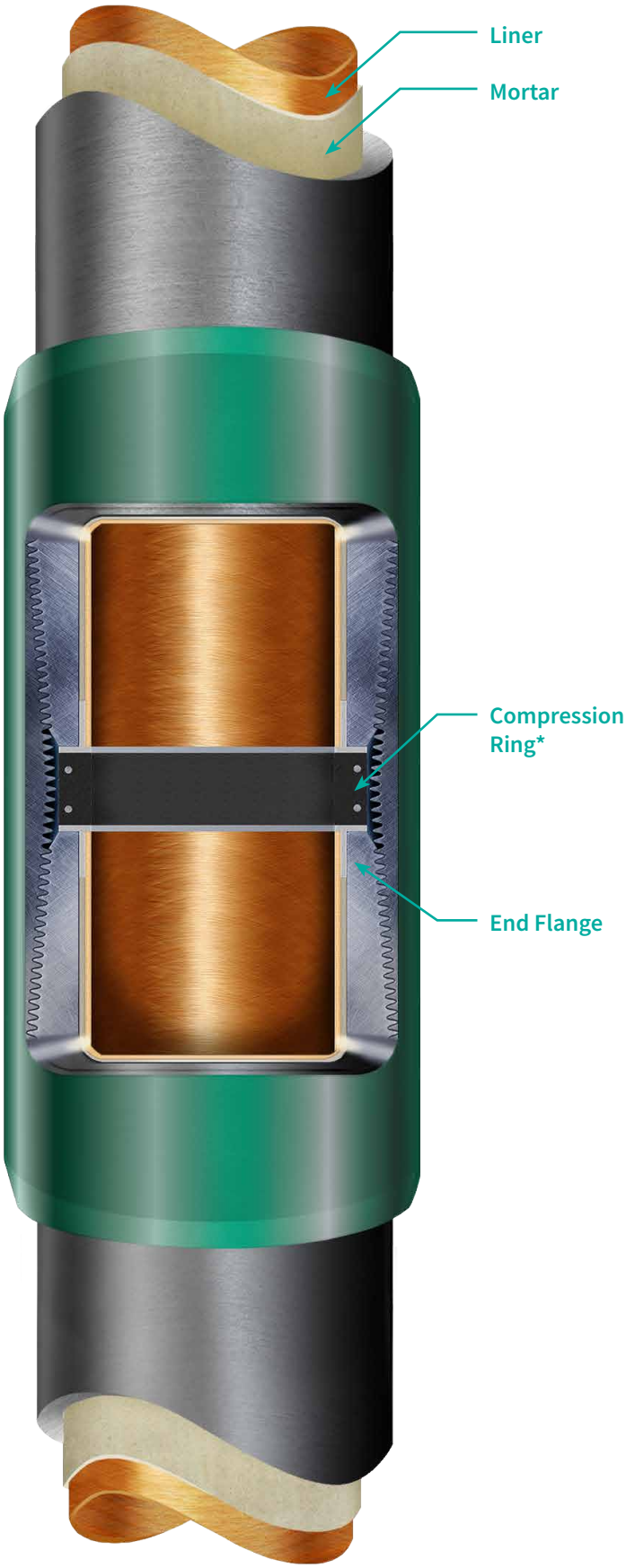

TK-Liner Specifications

Dimensions

Pipe Size	Wt*	Liner I.D.	Flange I.D.	Liner Wall	Added Weight
2 3/8"	4.7	1.772	Flush	0.050	0.70 lbs/ft
2 7/8"	6.5	2.212	Flush	0.050	0.90 lbs/ft
3 1/2"	9.3	2.752	Flush	0.050	0.75 lbs/ft
4 1/2"	11.6	3.702	Flush	0.060	1.5 lbs/ft
4 1/2"	12.6	3.702	Flush	0.060	1.4 lbs/ft
5 1/2"	17	4.625	Flush	0.075	1.75 lbs/ft
6 5/8"	24	5.575	Flush	0.095	2.6 lbs/ft
7"	23	6.059	Flush	0.095	2.4 lbs/ft
7"	26	5.860	Flush	0.095	3.5 lbs/ft
9 5/8"	43.5	8.071	Flush	0.175	7.8 lbs/ft
9 5/8"	47	8.071	Flush	0.175	6.8 lbs/ft

Note Drift Size is 1/8" less smallest ID Dimension
* Additional Sizes / Wts. Available; Contact Tuboscope Representative

API Connection

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