



ShawPRO™ AND ShawPRO HT™ LINED TUBING

Protect your company assets. Extend the life of your new or used tubulars with our corrosion-resistant lined products.

MAXIMUM EFFICIENCY

Protect your downhole tubulars against corrosion, erosion, scale, rod wear, fatigue, pitting and embrittlement. Designed to protect your tubulars from rod on tubing wear and corrosion along the ID of the tubing. Shawcor's ShawPRO and ShawPRO HT tubing is mechanically bonded to the ID of the tube, allowing the liner to be installed inside of both new and used tubing. Liner removal and replacement can be performed utilizing the same tubing joint multiple times. It will not flake, crack, chip or disbond—so your tubing string will remain internally protected from top to bottom. ShawPRO liners also improve flow characteristics and are compatible with most stimulation fluids and other injection chemicals.

BENEFITS

- Very low coefficient of friction
- Reduces rod-driven power consumption
- Erosion and abrasion resistant
- Reduces wax and scale build-up
- Corrosion-resistant
- Chemically inert
- Reduces workovers
- Reduces rod side-loading
- Extremely durable
- Mechanically bonded
- Eliminates harmonics
- H₂S and CO₂ compatible

APPLICATIONS

- PCP or rod pumping oil wells
- Disposal wells
- Plunger lift
- Water or chemical injection wells
- Submersible pump wells
- Slant, deviated or directional wellbore tubing strings
- Frac or N₂ tubing strings

**NORTH AMERICAN
MADE LINER FOR
FAST DELIVERY**

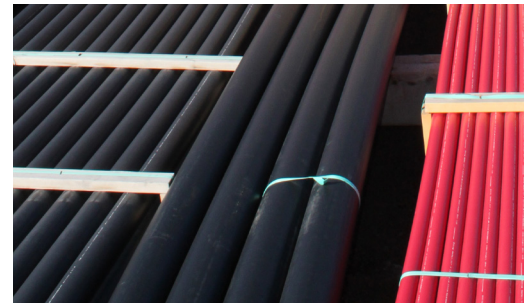
10x

**THE EROSION RESISTANCE
CAPABILITIES OF BARE STEEL**

DESIGN CONSIDERATIONS:

- Temperature and fluid compatibility, aromatics
- Permeation, absorption, notch and crack resistance (SCG)
- Service fluid components, abrasives, chemical additives and frequency of chemical additions
- Flow rates and ID sizing

Shawcor offers a wide selection of lining options, in a variety of specifications to meet all of your needs.



SHAWPRO AND SHAWPRO HT LINER SPECIFICATIONS

ShawPRO			ShawPRO HT	
HDPE Liner			PEX Liner	
Maximum operating temperature 140°F (60°C)			Maximum operating temperature 248°F (120°C)*	
Black in color			Red in color	
Property	Nominal Value	Test Method	*Application review to be performed for applications above 100°C.	
SCG, PENT	> 10,000 hours	ASTM F1473		

API TORQUE (FT. / LBS.)				
Tubing Diameter	Tubing Strength	Min	Opt	Max
2 ½ in. 60.3 mm	J-55 L-80	970 1,320	1,290 1,760	1,610 2,200
2 ¾ in. 73.0 mm	J-55 L-80	1,240 1,690	1,650 2,250	2,060 2,810
3 ½ in. 88.9 mm	J-55 L-80	1,710 2,350	2,280 3,130	2,850 3,910
4 ½ in. 114.3 mm	J-55 L-80	2,150 2,960	2,866 3,940	3,580 4,930

EUE 8RD BARE TUBING DIMENSIONS & ShawPRO LINED TUBING SPECIFICATIONS

API STANDARD BARE TUBING DIMENSIONS									
Tubing Diameter		Weights		Wall Thickness		Nominal ID		Drift Diameter	
in.	mm	lb./ft.	kg/m	in.	mm	in.	mm	in.	mm
2 ¾	60.3	4.70	6.99	0.190	4.83	1.995	50.67	1.901	48.28
2 ¾	73.0	6.50	9.67	0.217	5.51	2.441	62.00	2.347	59.61
3 ½	88.9	9.30	13.84	0.254	6.45	2.992	75.99	2.867	72.82
4 ½	114.3	12.75	18.97	0.271	6.88	3.958	100.53	3.833	97.35

LINED TUBING DIMENSIONS						API EUE 8RD COUPLING OD			
Tubing Diameter	Weights Inc Liner	Nominal ID		Drift Diameter		Regular		Slim Hole	
in.	lb./ft.	in.	mm	in.	mm	in.	mm	in.	mm
2 ¾	5.05	1.72	43.96	1.60	40.64	3.063	77.80	2.910	73.91
2 ¾	6.95	2.10	53.34	2.00	50.80	3.668	93.16	3.460	87.88
3 ½	9.95	2.67	67.81	2.50	63.50	4.500	114.3	4.180	106.17
4 ½	13.72	3.68	93.47	3.40	86.36	5.563	141.3	5.094	129.38

Shawcor Ltd. is a global energy services company specializing in products and services for the pipeline and pipe services segment of the oil and gas industry and related products for petrochemical and industrial markets. The Company operates through a network of fixed and mobile manufacturing and service facilities located around the world and is valued for its integrity, technology, and proven capability to execute the most complex projects in our industry.