Tubing Data & Performance Sheet

2.875” 7.90 ppf R-2 P-110 PH-6 Type

TUBE BODY DATA

Tube OD	2.875 in.
Wall Thickness	.276 in.
Tube ID	2.323 in.
Tensile Yield Strength	194,100 lbs. (API Premium 80% Inspection Class)
Torsional Yield Strength	11,005 ft./ lbs. (API Premium 80% Inspection Class)
Compression Yield Strength	248,000 lbs.
Tube Burst	16,896 psi. (API Premium 80% Inspection Class)
Tube Collapse	16,082 psi. (API Premium 80% Inspection Class)
Bending Yield Strength	175 º / 100 ft.

CONNECTION DATA

Connection	PH-6 Type
Connection OD	3.438 in.
Connection ID	2.265 in.
Make-Up Loss	3.040 in.
Drift	2.229 in.

MAKE –UP TORQUE

Make Up Torque - Minimum	3,500 ft./ lbs.
Make Up Torque - Optimum	3,938 ft./ lbs.
Make Up Torque - Maximum	4,375 ft./ lbs.
[1] Operational Rotating Torque	8,678 ft./ lbs.

CONNECTION PERFORMANCE

Tension Efficiency	108 %
Compression Yield	284,042 lbs.
Torsional Yield	10,848 ft./lbs.
Bending Yield Strength	210.3 º / 100 ft.
Connection Burst	18,480 psi.
Connection Collapse	19,090 psi.

FEATURES

Hardbanding	None

Item No. : TUB278PH6P110

Notes:

[1] Operational Rotating Torque is provided to allow for additional rotating torque, if needed, based on well conditions. Operational Rotating Torque is based on 80% of the connection’s torsional yield value. **DO NOT** apply Operational Rotating Torque with tubing tongs during connection make up. Operational Rotating Torque may only be applied with equipment designed to rotate the entire tubing string while inside the well. Maximum Make Up Torque should be applied to the connection prior to using Operational Rotating Torque, with calibrated tubing tongs. Connection Breakout Torque may be approximately 80% of the maximum Operational Rotating Torque applied to the tubing. Extra care should be taken during the Connection Breakout process to prevent damage to the tubing as well as the tubing handling equipment.

PATTERSON SERVICES INC
WWW.PATTERSONSERVICES.COM

Alice, Texas	Broussard, Louisiana	Elk City, Oklahoma	Odessa, Texas	Washington, Pennsylvania	Williston, North Dakota
361-668-8231	337-359-9900	580-243-0055	432-563-2172	724-222-1219	701-572-1914