Tubing Data & Performance Sheet

Alice, Texas

361-668-8231

3-1/2" 9.30# P-110 3-1/2" CS Hydril Type

Washington, Pennsylvania

724-222-1219

Williston, North Dakota

701-572-1914

TUBE BODY DATA					CONNECTION DATA		
Tube OD	3.500	500 in.			Connection	CS Hydr	іl Туре
Wall Thickness	0.254	in.			Connection OD	3.915	in.
Tube ID	2.992	in.			Connection ID	2.920	in.
Tensile Yield Strength	224,400	lbs. (API Premium 80% Inspection Class)			Threads per inch	8	
Torsional Yield Strength	16,300	ft-lbs. (API Premium 80% Inspection Class)			Make-Up Loss	2.840	in.
Tube Burst	12,800	psi. (API Premium 80% Inspection Class)			MAKE-UP TORQUE		
Tube Collapse	9,100	psi. (API Premium 80% Inspection Class)			Make-Up Torque - Minimum	3,300	ft-lbs.
UBULAR ASSEMBLY					Make-Up Torque - Optimum	3,800	ft-lbs.
Approximate Length	30	ft.			Make-Up Torque Maximum	4,200	ft-lbs.
	30 9.30	ft. Ibs./ft.			Make-Up Torque Maximum CONNECTION PERFORMANCE	4,200	ft-lbs.
Nominal Weight	9.30	lbs./ft.				4,200 Not Rep	
Nominal Weight Material Grade	9.30	lbs./ft.			CONNECTION PERFORMANCE		orted
Nominal Weight Material Grade Drift Diameter	9.30 110,000	lbs./ft. psi.	0.0032	bbls./ft.	CONNECTION PERFORMANCE Connection Torsional Strength	Not Rep	orted
	9.30 110,000 2.867	lbs./ft. psi. in.	0.0032 0.0087	bbls./ft. bbls./ft.	CONNECTION PERFORMANCE Connection Torsional Strength Connection Tensile Strength	Not Rep 284,900	orted Ibs.
Nominal Weight Material Grade Drift Diameter Displacement	9.30 110,000 2.867 0.1346	lbs./ft. psi. in. gal./ft.			CONNECTION PERFORMANCEConnection Torsional StrengthConnection Tensile StrengthExternal Pressure Capacity	Not Rep 284,900 13,500	orted Ibs. psi.

Notes:

- Referenced tube size, wall and assembly length are nominal, unless indicated otherwise. Values shown may vary with actual values due to OEM tolerances, rounding and other factors. Tubing is manufactured to API 5CT 87-1/2% RBW and inspected to minimum Premium Class (80% RBW).

- Maximum make-up torque is that value above which there is no additional benefit, or reason to exceed. It is not meant to indicate the maximum torque the connection can withstand.

Broussard, Louisiana

337-359-9900

The technical information contained herein, including the product performance sheet and other attached documents, has been extracted from information available from the manufacturer and is for reference only and not a recommendation. The user is fully responsible for the accuracy and suitability of use of the technical information. Patterson Servicers, Inc. cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. Tubular assembly properties are calculated based on uniform OD and wall thickness. No safety factor is applied. Weight, displacement, and capacity are approximate and can vary by ± 10% (or more) depending on OD, specified wall, wall tolerance, and internal coating options. It is the responsibility of the customer and the end user to determine the appropriate performance ratings, acceptable use of the product, maintain safe operational practices, and to apply a prudent safety factor suitable for the application.

Elk City, Oklahoma

580-243-0055

Odessa, Texas

432-563-2172

