

Drill Collar Data & Performance Sheet

6-1/2" x 2-13/16" Spiral DC with NC50 (4-1/2 IF)

TUBE BODY DATA

Tube OD	6.500	in.
Wall Thickness	1.844	in.
Tube ID	2.813	in.
Material Grade	110,000	psi.
Tensile Yield Strength	2,298,304	lbs.
Torsional Yield Strength	199,523	ft-lbs.
Tube Burst	50,164	psi.
Tube Collapse	42,391	psi.

CONNECTION DATA

Connection	NC50 (4-1/2 IF)
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CONNECTION PERFORMANCE

Make Up Torque (API)	32,600	ft-lbs. (1.0 FF)
	37,490	ft-lbs. (1.15 FF)
Connection Tensile Yield	1,374,800	lbs.
Connection Torsional Yield	52,000	ft-lbs.

ENGINEERING DATA

Approximate Length	30	ft.		
Drift Diameter	2.688	in.		
Adj. Weight	91.69	lbs. / ft.		
Displacement	1.4011	gal. / ft.	0.0334	bbls. / ft.
Capacity	0.3227	gal. / ft.	0.0077	bbls. / ft.
BSR	2.025			

Notes:

- Ensure sufficient MUT is applied to the connection. Stick and slip is very damaging to connections and can induce higher-than-planned torque. Adjust MUT according to thread compound friction factor. Higher MUT values may be used under extreme conditions and is recommended when downhole torque and/or backoff is a concern.
- Dimensions, wall thickness, and lengths shown above are nominal. Figures may exclude the effects of wear, stress relief, boreback, ID chamfers, and/or spiral features.

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 Services, Inc. cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. Drill Collar 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 $\pm 10\%$ (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.