

Drill Collar Data & Performance Sheet

8" x 2-13/16" Spiral DC with 6-5/8 Reg

TUBE BODY DATA

| | | |
|--------------------------|-----------|---------|
| Tube OD | 8.000 | in. |
| Wall Thickness | 2.594 | in. |
| Tube ID | 2.813 | in. |
| Material Grade | 100,000 | psi. |
| Tensile Yield Strength | 3,506,766 | lbs. |
| Torsional Yield Strength | 351,627 | ft-lbs. |
| Tube Burst | 53,550 | psi. |
| Tube Collapse | 42,473 | psi. |

CONNECTION DATA

| | |
|------------|-----------|
| Connection | 6-5/8 REG |
|------------|-----------|

CONNECTION PERFORMANCE

| | | |
|----------------------------|-----------|-------------------|
| Make Up Torque (API) | 58,500 | ft-lbs. (1.0 FF) |
| | 67,275 | ft-lbs. (1.15 FF) |
| Connection Tensile Yield | 1,816,300 | lbs. |
| Connection Torsional Yield | 85,500 | ft-lbs. |

ENGINEERING DATA

| | | | | |
|--------------------|--------|------------|--------|-------------|
| Approximate Length | 30 | ft. | | |
| Drift Diameter | 2.688 | in. | | |
| Adj. Weight | 149.76 | lbs. / ft. | | |
| Displacement | 2.2885 | gal. / ft. | 0.0545 | bbls. / ft. |
| | 0.3227 | gal. / ft. | 0.0077 | bbls. / ft. |
| Capacity | 0.3227 | gal. / ft. | 0.0077 | bbls. / ft. |
| BSR | 2.604 | | | |

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.