



GULF ENGINEERING SERVICES LTD. DRILL COLLAR PERFORMANCE SHEET

Size: 4.875" x 2.250"
Type: Spiral
MYS (ksi): 110
Tool Joint: 4.875" x 2.250" NC38

DRILL COLLAR BODY:

	Nominal 100% RBW
OD (in):	4.875
Wall Thickness (in):	1.313
Nominal ID (in):	2.250

DRILL COLLAR ASSEMBLY:

Approximate Length (ft):	31.5
Adjusted Weight (lbs):	49.36
Type of Drill Collar:	Spiral
Fluid Displacement (gal/ft):	0.764
Fluid Displacement (bbls/ft):	0.0182
Fluid Capacity (gal/ft):	0.206
Fluid Capacity (bbls/ft):	0.0049
Drift Size (in):	2.125

CONNECTION: NC38

Tool Joint OD (in):	4.875
Tool Joint ID (in):	2.250
Connection MYS (ksi):	110
Bending Strength Ration (BSR):	2.14

Maximum MUT (ft-lbs):	12 000
Tension at Shoulder Separation @ Max MUT (lbs):	Tensile Limited
Tension at Connection Yield @ Max MUT (lbs):	516 900

Minimum MUT (ft-lbs):	10 000
Tension at Shoulder Separation @ Min MUT (lbs):	615 700
Tension at Connection Yield @ Min MUT (lbs):	630 400

Tool Joint Torsional Strength (ft-lbs):	20 000
Tool Joint Tensile Strength (lbs):	630 400

Note: MUT values are based on a friction factor of 1.0. There is no published pressure rating for this connection.

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. Gulf Engineering Services Ltd. cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. Drill pipe assembly properties are calculated based on uniform OD and wall thickness. No safety factor is applied. The information provided for various inspection classes and for various wear conditions (remaining body wall) is for information only and does not represent or imply acceptable operation limits. 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. For API connections that have different pin and box IDs, tool joint ID refers to the pin ID. Per Chapter B, Section 4 VII of the IADC drilling manual, it is recommended that drilling torque should not exceed 80% of MUT.