



GULF ENGINEERING SERVICES LTD. HEAVY WEIGHT DRILL PIPE PERFORMANCE CHARACTERISTICS

Pipe Size and Weight:	5.875" x 4.000" Heavy Weight
Pipe Grade:	55ksi Standard Heavy Weight
Range:	2
Tool Joint:	7.000" x 4.000" XT57

PIPE BODY:

	New (Nominal)
OD (in):	5.875
Wall Thickness (in):	0.938
ID (in):	4.000
Calculated Plain End Weight (lbs/ft):	49.385
Tensile Strength (lbs):	799 800
Torsional Strength (ft-lbs):	82 700
80% Torsional Strength (ft-lbs):	66 160
Burst Pressure (psi):	15 359
Collapse Pressure (psi):	14 752

	New (Nominal)
Cross Sectional Area of Pipe Body (in ²):	14.542
Cross Sectional Area of OD (in ²):	27.109
Cross Sectional Area of ID (in ²):	12.566
Section Modulus (in ³):	15.630
Polar Section Modulus (in ³):	31.260

TOOL JOINT 120 000 psi MATERIAL YIELD STRENGTH: XT57

OD (in):	7.000
ID (in):	4.000
Pin Tong Length (in):	24.0
Box Tong Length (in):	24.0
Torsional Strength (ft-lbs):	106 200
Max Recommended Make-up Torque (ft-lbs):	63 700
Min Recommended Make-up Torque (ft-lbs):	36 400
Tensile Strength (lbs):	1 403 100
Tool Joint/ Drill Pipe Torsional Ratio (New Pipe):	1.28
Balance OD (in):	7.077

DRILL PIPE ASSEMBLY WITH GRANT PRIDECO XT57 eXtreme TORQUE CONNECTION:

Adjusted Weight (lbs/ft):	55.14
Approximate Length (ft):	31.00
Fluid Displacement (gal/ft):	0.843
Fluid Capacity (gal/ft):	0.653
Fluid Capacity (bbls/ft):	0.01555
Drift Size (in):	3.750

Note: Minimum make-up is based on shoulder separation caused by bending

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.