



GULF ENGINEERING SERVICES LTD. HEAVY WEIGHT DRILL PIPE PERFORMANCE CHARACTERISTICS

Pipe Size and Weight:	5.875" x 4.000" Tri-Spiral 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):	57.42
Approximate Length (ft):	31.00
Fluid Displacement (gal/ft):	0.878
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