

DRILL PIPE DATA SHEET

DRILL PIPE: 5 7/8" IEU by 26.30 lb/ft by Grade S by Range 2 (31.5 ft)

TOOL JOINT: 7" OD by 4 1/4" ID by TSC™57 (135 ksi SMYS)

DRILL PIPE BODY DIMENSIONAL DATA

	NEW (100% RBW)	PREMIUM (80% RBW)
OD (in)	5.875	5.709
ID, Ref (in)	5.045	5.045
Wall Thickness (in)	0.415	0.332
Cross Sectional Area (in ²)	7.119	5.608
Polar Section Modulus, J/c (in ³)	18.165	14.255
Section Modulus, I/c (in ³)	9.083	7.128

Premium Class values based on a minimum wall thickness equal to 80% of New drill pipe nominal wall thickness.

DRILL PIPE BODY PERFORMANCE PROPERTIES

	NEW (100% RBW)	PREMIUM (80% RBW)
Tensile Yield (lb)	961,002	757,115
Torsional Yield (ft-lb)	117,915	92,533
Collapse Pressure (psi)	14,892	9,368
Internal Yield Pressure (psi)	16,688	15,258
Material Yield Strength (psi)	135,000	

Drill pipe body performance properties are based on API RP 7G. Class New drill pipe body data is for reference only and is not intended for drill string design purposes.

TOOL JOINT DATA (New)

Connection Size	TSC™57	
OD (in)	7.000	
ID (in)	4.250	
Box Tool Joint OD Length (in)	17.0	
Pin Tool Joint OD Length (in)	12.0	
Connection Bevel Diameter (in)	6.721	
Material Yield Strength (psi)	135,000	
Thread Compound Friction Factor	1.0 (a)	1.15 (b)
Recommended Make-Up Torque (ft-lb)	63,600	73,100
Max Make-Up Torque (ft-lb)	74,100	85,300
Torsional Yield (ft-lb)	106,000	
Torsional Strength Ratio, TJ/DPB	0.90	
Approximate Tension to Yield Pin at Recommended Make-Up Torque (lb)	996,000	
Approximate Tension to Yield Pin at Max Make-Up Torque (lb)	749,000	
Tool Joint Tensile Yield (lb)	1,350,600	
Balanced OD (in)	6.930	

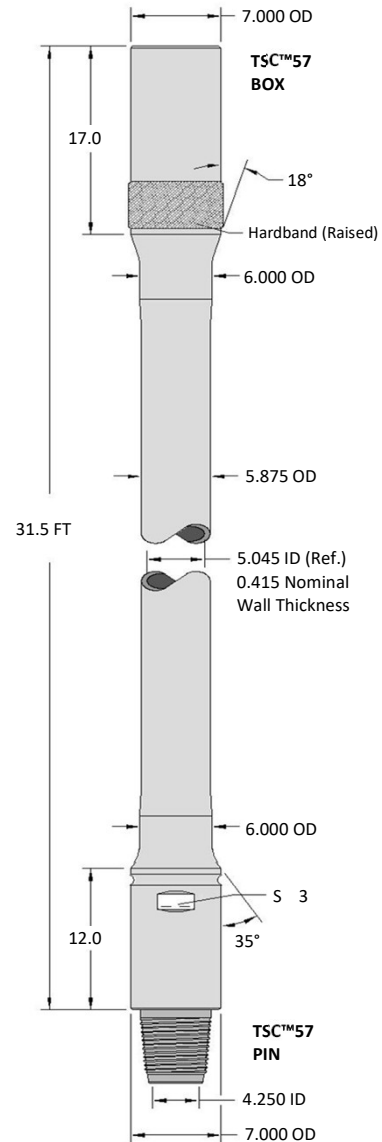
(a) Make-Up Torque values shown under column 1.0 are based on using a 1.0 friction factor thread compound (0.08 coefficient of friction).

(b) Make-Up Torque values shown under column 1.15 have been adjusted based on using a 1.15 friction factor thread compound. The make-up torque values are only applicable when using a thread compound rated by the manufacturer to have a 1.15 friction factor.

(c) Recommended Make-Up Torque is based on 60% of the connection torsional yield, ref. API RP 7G.

(d) Max Make-Up Torque is based on 70% of the connection torsional yield. It is the maximum make-up torque that can be applied to the connection to prevent downhole make-up, reference IADC Drilling Manual. Never exceed Max Make-Up Torque.

(e) Tension less than Premium Class (80% RBW) drill pipe body tensile yield capacity.



DRILL PIPE ASSEMBLY DATA (New)

Weight (Approx.)		Capacity (Approx.)		Displacement Open Ends (Approx.)		Drift Diameter	Length Shld'r to Shld'r (Approx.)
(lb/joint)	(lb/ft)	(US gallon/ft)	(BBL/ft)	(US gallon/ft)	(BBL/ft)	(in)	(ft)
985	31.27	0.9794	0.0233	0.4777	0.0114	4.125	31.5

Assembly data based on New TSC 95% RBW drill pipe nominal dimensions and no internal plastic coating. Conversion Factor: 1 BBL= 42 US gallons. For internal plastic coated drill pipe, the above drift diameter shall be reduced by the amount specified by the plastic coating applicator.

Notes:

- All data is calculated based on standard methods. No safety factor applied.
- Premium Class drill pipe data is based on a minimum wall thickness equal to 80% of New drill pipe nominal wall thickness, ref. API RP 7G-2.
- Drawing is for reference purposes only, not to scale, and based on New drill pipe nominal dimensions, units of inches unless otherwise indicated.

The technical information contained herein is for reference purposes only and is not a recommendation. TSC Drill Pipe does not assume responsibility for results obtained through the use of the technical information, no warranty is expressed or implied. User is fully responsible for the accuracy and suitability of use of the technical information and application of appropriate safety factor. TSC Drill Pipe reserves the right to amend or update the data sheet at any time without notification. Email sales@drillpipe.com or visit drillpipe.com for the latest data sheets.

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