

# Drill Pipe Data & Performance Sheet

## 2-3/8" 6.65# S-135 R2 NC26 (2.375 IF)

### TUBE BODY DATA

Tube OD	2.375	in.
Wall Thickness	0.280	in.
Tube ID	1.815	in.
Tensile Yield Strength	193,700	lbs. (API Premium 80% Inspection Class)
Torsional Yield Strength	8,700	ft-lbs. (API Premium 80% Inspection Class)
Upset Type   Upset OD (max)	EU	2.5625 in.
Elevator Capacity	374,854	lbs.
Tube Burst	25,465	psi. (API Premium 80% Inspection Class)
Tube Collapse	24,080	psi. (API Premium 80% Inspection Class)
Slip-Crush Capacity (16.5" gripper contact length)	210,700	lbs.

### CONNECTION DATA

Connection	NC26 (2-3/8 IF)
Tool Joint OD	3.375 in.
Tool Joint ID	1.750 in.
Tool Joint SMYS	120,000 psi.

### CONNECTION PERFORMANCE

Make Up Torque (Max.) <sup>1</sup>	4,100	ft-lbs. (1.0 FF)
	4,715	ft-lbs. (1.15 FF)
Connection Tensile Yield (@ Max. M/U TQ)	249,100	lbs.
Connection Torsional Yield	6,900	ft-lbs.

### ENGINEERING DATA

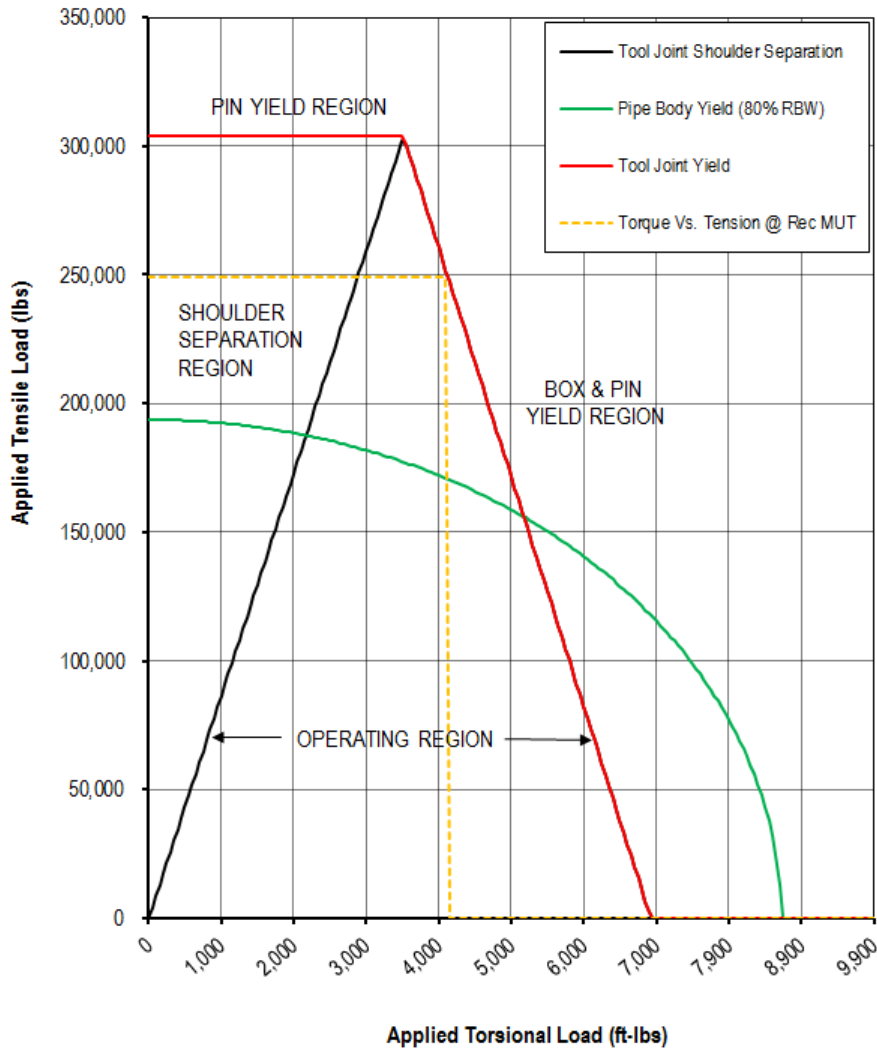
Approximate Length	31	ft.		
Drift Diameter	1.625	in.		
Adj. Weight	7.27	lbs. / ft.		
Displacement	0.1110	gal. / ft.	0.0026	bbls. / ft.
Capacity	0.1335	gal. / ft.	0.0032	bbls. / ft.

### Notes:

<sup>1</sup>Max MUT 1.0 FF is 60% of connection torsional strength. As required, adjust MUT according to applied thread compound friction factor, not exceeding 1.15. Rec MUT for most applications is that shown for 1.0 FF, regardless of dope used. Higher MUT should only be applied where rotary torque exceeds 80% of MUT 1.0 FF or when downhole torque and/or backoff is a concern.

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 pipe assembly 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 ± 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. 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.

**Torque Tension Curve: 2-3/8" 6.65# EU S-135 Premium Class Drill Pipe with 3.375 X 1.750 NC26 (2-3/8 IF) API Tool Joint. Curve Based on Calculation Method in API RP7G. Safety Factor =1.0**



**2-3/8" 6.65# EU S-135 Drill Pipe Tube Body Collapse Pressure Under Axial Stress - API 5C3**

