



## DRILL PIPE PERFORMANCE DATA SHEET

IMPERIAL UNIT

**Pipe Size & Weight:** 5 19.50\_lb/ft\_EU  
**Pipe Grade:** S135  
**Range:** 2  
**Tool Joint:** 6.625 X 3.25 DPM-DS50

DRILL PIPE DIMENSIONS & MATERIALS				DRILL PIPE WEAR & MECHANICAL PERFORMANCES			
PIPE		New (Nominal)	API Premium	PIPE		NEW (Nominal)	API Premium
Pipe Outside Diameter (OD)	in	5.000	4.855	Internal Pressure Capacity	psi	17,105	15,638
Pipe Inside Diameter (ID)	in	4.276	4.276	Collapse Capacity	psi	15,672	10,029
Wall Thickness	in	0.362	0.290	Cross Sectional Area Pipe Body	in Sq	5.575	4.154
Calculated Plain End Weight	lbs/ft	17.932	14.120	Section Modulus	in Cu	5.708	4.476
Pipe Body Min Yield Strength	psi	135,000	135,000	Polar Section Modulus	in Cu	11.415	8.953
Tensile Strength	lbs	712,070	560,764	Tool Joint / Pipe Body Torsional Ratio		1.057	0.800
Torsional Strength	ft-lbs	74,100	58,114	Cross Sectional Area OD	in Sq	19.635	18.515
80% Torsional Strength	ft-lbs	59,280	46,491	Cross Sectional Area ID	in Sq	14.360	14.360
TOOL JOINT		New (Nominal)	API Premium	DRILL PIPE ASSEMBLY			
Connection Type		DPM-DS50	DPM-DS50	Approx. Length	ft	32.00	
Material Yield Strength	ksi	130	130	Adjusted Weight	lbs/ft	24.88	
Outside Diameter (OD)	in	6.625	5.781	Drift Size	in	3.125	
Inside Diameter (ID)	in	3.250	3.250	Maximum Upset OD	in	5.688	
Pin Tong Length	in	11.000	11.000	Fluid Displacement	gal/ft	0.380	
Box Tong Length	in	14.000	14.000	Fluid Capacity	gal/ft	0.901	
Pin shoulder Angle	deg	35	35				
Tensile Strength	lbs	1,354,200	1,354,200				
Torsional Strength	ft-lbs	74,100	46,481				
Max. Make-Up Torque	ft-lbs	54,800	32,500				
Min. Make-up Torque	ft-lbs	47,000	27,900				
Balanced OD	in	6.872	5.781				

Premium properties are calculated based on uniform Outside Diameter and Wall Thickness

Torque performances are calculated with coefficient of friction factor , 0.08.

API recommends a torsional ratio of 0.8 or greater

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The information contained in this Performance Data Sheet is subject to revision without notice.