



## DRILL PIPE PERFORMANCE DATA SHEET

IMPERIAL UNIT

Pipe Size & Weight: 4.00\_14.00\_lb/ft\_EU  
 Pipe Grade: S135  
 Range: 2  
 Tool Joint: 5 X 2.563 DPM-MT39

DRILL PIPE DIMENSIONS & MATERIALS				DRILL PIPE WEAR & MECHANICAL PERFORMANCES			
PIPE		New (Nominal)	API Premium	PIPE		NEW (Nominal)	API Premium
Pipe Outside Diameter (OD)	in	4.000	3.868	Internal Pressure Capacity	psi	19,491	17,820
Pipe Inside Diameter (ID)	in	3.340	2.764	Collapse Capacity	psi	20,141	13,836
Wall Thickness	in	0.330	0.552	Cross Sectional Area Pipe Body	in Sq	3.805	2.989
Calculated Plain End Weight	lbs/ft	12.935	9.616	Section Modulus	in Cu	3.229	2.523
Pipe Body Min Yield Strength	psi	135,000	135,000	Polar Section Modulus	in Cu	6.458	5.046
Tensile Strength	lbs	513,646	403,527	Tool Joint / Pipe Body Torsional Ratio		0.883	0.800
Torsional Strength	ft-lbs	41,918	32,752	Cross Sectional Area OD	in Sq	12.566	11.530
80% Torsional Strength	ft-lbs	33,534	26,202	Cross Sectional Area ID	in Sq	8.762	8.762
TOOL JOINT		New (Nominal)	API Premium	DRILL PIPE ASSEMBLY		New (Nominal)	
Connection Type		DPM-MT39	DPM-MT39	Approx. Length	ft	32.00	
Material Yield Strength	ksi	130	130.000	Adjusted Weight	lbs/ft	16.04	
Outside Diameter (OD)	in	5.000	4.688	Drift Size	in	2.438	
Inside Diameter (ID)	in	2.563	2.563	Maximum Upset OD	in	4.188	
Pin Tong Length	in	12.000	12.000	Fluid Displacement	gal/ft	0.245	
Box Tong Length	in	17.000	17.000	Fluid Capacity	gal/ft	0.437	
Pin shoulder Angle	deg	35	35				
Tensile Strength	lbs	795,252	795,252				
Torsional Strength	ft-lbs	36,994	26,190				
Max. Make-Up Torque	ft-lbs	25,900	18,300				
Min. Make-up Torque	ft-lbs	18,500	13,100				
Balanced OD	in	5.007	4.688				

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.