



DRILL PIPE PERFORMANCE DATA SHEET

IMPERIAL UNIT

Pipe Size & Weight: 5_25.6_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	4.800	Internal Pressure Capacity	psi	23,625	21,600
Pipe Inside Diameter (ID)	in	4.000	4.000	Collapse Capacity	psi	24,300	20,510
Wall Thickness	in	0.500	0.400	Cross Sectional Area Pipe Body	in Sq	7.069	5.529
Calculated Plain End Weight	lbs/ft	24.030	18.795	Section Modulus	in Cu	7.245	5.621
Pipe Body Min Yield Strength	psi	135,000	135,000	Polar Section Modulus	in Cu	14.491	11.243
Tensile Strength	lbs	954,259	746,442	Tool Joint / Pipe Body Torsional Ratio		0.833	0.800
Torsional Strength	ft-lbs	94,062	72,979	Cross Sectional Area OD	in Sq	19.635	15.355
80% Torsional Strength	ft-lbs	75,250	58,383	Cross Sectional Area ID	in Sq	12.566	9.827
TOOL JOINT				DRILL PIPE ASSEMBLY			
Connection Type		DPM-DS50	DPM-DS50	Approx. Length	ft	31.50	
Material Yield Strength	ksi	130	130	Adjusted Weight	lbs/ft	28.56	
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	5.125	
Pin Tong Length	in	9.000	9.000	Fluid Displacement	gal/ft	0.436	
Box Tong Length	in	12.500	12.500	Fluid Capacity	gal/ft	0.631	
Pin shoulder Angle	deg	35	35				
Tensile Strength	lbs	1,354,200	1,354,200				
Torsional Strength	ft-lbs	78,328	46,480				
Max. Make-Up Torque	ft-lbs	54,800	32,500				
Min. Make-up Torque	ft-lbs	47,000	23,200				
Balanced OD	in	6.383	5.368				

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.