



## DRILL PIPE PERFORMANCE DATA SHEET

IMPERIAL UNIT

Pipe Size & Weight: 2-7/8\_10.40\_lb/ft\_EU  
 Pipe Grade: S135  
 Range: 2  
 Tool Joint: 3.125 X 1.5 2-7/8" HT PAC

DRILL PIPE DIMENSIONS & MATERIALS				DRILL PIPE WEAR & MECHANICAL PERFORMANCES			
PIPE		New (Nominal)	API Premium	PIPE		NEW (Nominal)	API Premium
Pipe Outside Diameter (OD)	in	2.875	2.730	Internal Pressure Capacity	psi	29,747	27,197
Pipe Inside Diameter (ID)	in	2.151	2.151	Collapse Capacity	psi	29,716	25,602
Wall Thickness	in	0.362	0.290	Cross Sectional Area Pipe Body	in Sq	2.858	2.220
Calculated Plain End Weight	lbs/ft	9.716	7.220	Section Modulus	in Cu	1.602	1.228
Pipe Body Min Yield Strength	psi	135,000	135,000	Polar Section Modulus	in Cu	3.204	2.456
Tensile Strength	lbs	385,820	299,764	Tool Joint / Pipe Body Torsional Ratio		0.448	0.586
Torsional Strength	ft-lbs	20,798	15,945	Cross Sectional Area OD	in Sq	6.492	5.854
80% Torsional Strength	ft-lbs	16,638	12,756	Cross Sectional Area ID	in Sq	3.634	3.634
TOOL JOINT				DRILL PIPE ASSEMBLY			
		New (Nominal)	API Premium			New (Nominal)	
Connection Type		2-7/8" HT PAC	2-7/8" HT PAC	Approx. Length	ft	31.00	
Material Yield Strength	ksi	130	130	Adjusted Weight	lbs/ft	10.43	
Outside Diameter (OD)	in	3.125	2.945	Drift Size	in	1.375	
Inside Diameter (ID)	in	1.500	1.500	Maximum Upset OD	in	3.000	
Pin Tong Length	in	9.000	9.000	Fluid Displacement	gal/ft	0.159	
Box Tong Length	in	12.500	12.500	Fluid Capacity	gal/ft	0.181	
Pin shoulder Angle	deg	35	35				
Tensile Strength	lbs	288,562	288,562				
Torsional Strength	ft-lbs	9,326	7,500				
Max. Make-Up Torque	ft-lbs	6,500	5,700				
Min. Make-up Torque	ft-lbs	4,300	3,710				
Balanced OD	in	3.032	2.857				

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.