



DRILL PIPE PERFORMANCE DATA SHEET

IMPERIAL UNIT

Pipe Size & Weight: 2-7/8_10.40_lb/ft_EU
 Pipe Grade: E75
 Range: 2
 Tool Joint: 4.125 X 2 NC31

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	16,526	15,110
Pipe Inside Diameter (ID)	in	2.151	2.151	Collapse Capacity	psi	16,509	14,223
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	75,000	75,000	Polar Section Modulus	in Cu	3.204	2.456
Tensile Strength	lbs	214,344	166,535	Tool Joint / Pipe Body Torsional Ratio		1.142	0.801
Torsional Strength	ft-lbs	11,554	8,854	Cross Sectional Area OD	in Sq	6.492	5.854
80% Torsional Strength	ft-lbs	9,243	7,083	Cross Sectional Area ID	in Sq	3.634	3.634
TOOL JOINT		New (Nominal)	API Premium	DRILL PIPE ASSEMBLY			
Connection Type		NC31	NC31	Approx. Length	ft	31.00	
Material Yield Strength	ksi	120	120	Adjusted Weight	lbs/ft	11.26	
Outside Diameter (OD)	in	4.125	3.813	Drift Size	in	1.875	
Inside Diameter (ID)	in	2.000	2.000	Maximum Upset OD	in	3.000	
Pin Tong Length	in	9.000	9.000	Fluid Displacement	gal/ft	0.172	
Box Tong Length	in	12.000	12.000	Fluid Capacity	gal/ft	0.187	
Pin shoulder Angle	deg	35	35				
Tensile Strength	lbs	483,817	483,817				
Torsional Strength	ft-lbs	13,196	7,093				
Max. Make-Up Torque	ft-lbs	9,200	5,000				
Min. Make-up Torque	ft-lbs	6,600	3,500				
Balanced OD	in	4.078	3.813				

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.