



DRILL PIPE PERFORMANCE DATA SHEET

IMPERIAL UNIT

Pipe Size & Weight: 3.50_15.50_lb/ft_EU
 Pipe Grade: S135
 Range: 2
 Tool Joint: 4.75 X 2.5625 NC38

DRILL PIPE DIMENSIONS & MATERIALS				DRILL PIPE WEAR & MECHANICAL PERFORMANCES			
PIPE		New (Nominal)	API Premium	PIPE		NEW (Nominal)	API Premium
Pipe Outside Diameter (OD)	in	3.500	3.320	Internal Pressure Capacity	psi	30,308	27,710
Pipe Inside Diameter (ID)	in	2.602	2.602	Collapse Capacity	psi	30,194	26,049
Wall Thickness	in	0.449	0.359	Cross Sectional Area Pipe Body	in Sq	4.304	3.342
Calculated Plain End Weight	lbs/ft	14.631	11.355	Section Modulus	in Cu	2.923	2.239
Pipe Body Min Yield Strength	psi	135,000	135,000	Polar Section Modulus	in Cu	5.847	4.477
Tensile Strength	lbs	580,955	451,115	Tool Joint / Pipe Body Torsional Ratio		0.506	0.661
Torsional Strength	ft-lbs	37,954	29,063	Cross Sectional Area OD	in Sq	9.621	8.659
80% Torsional Strength	ft-lbs	30,363	23,250	Cross Sectional Area ID	in Sq	5.317	5.317
TOOL JOINT		New (Nominal)	API Premium	DRILL PIPE ASSEMBLY		New (Nominal)	
Connection Type		NC38	NC38	Approx. Length	ft	31.50	
Material Yield Strength	ksi	120	120	Adjusted Weight	lbs/ft	16.60	
Outside Diameter (OD)	in	4.750	4.660	Drift Size	in	2.438	
Inside Diameter (ID)	in	2.563	2.563	Maximum Upset OD	in	3.875	
Pin Tong Length	in	10.500	10.500	Fluid Displacement	gal/ft	0.254	
Box Tong Length	in	12.500	12.500	Fluid Capacity	gal/ft	0.275	
Pin shoulder Angle	deg	35	35				
Tensile Strength	lbs	634,795	634,795				
Torsional Strength	ft-lbs	19,186	19,186				
Max. Make-Up Torque	ft-lbs	13,400	13,400				
Min. Make-up Torque	ft-lbs	9,600	9,600				
Balanced OD	in	4.781	4.781				

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.