

DOC TITLE: DRILL PIPE PERFORMANCE DATA SHEET

DOC. NO. TAS-RT-DP-017

REV: NA

Page 1 of 1

## **DRILL PIPE PERFORMANCE DATA SHEET**

IMPERIAL UNIT

Pipe Size & Weight: 3.500 X 2.250 HWDP

Pipe Grade:

110 KSI INTEGRAL HEAVY WEIGHT

Range: 2

Tool Joint: 4.75 X 2.25 NC38

DRILL PIPE DIMENSIONS & MATERIALS New			DRILL PIPE WEAR & MECHANICAL PERFORMANCES  New		
PIPE	_	(Nominal)	PIPE		(Nominal)
Pipe Size	in	3.50 X 2.25 HWDP	OD	in	3.500
Pipe Grade		110 KSI	Wall Thickness	in	0.625
Pipe Length Range 2 or 3		2	Cross Sectional Area Pipe Body	in Sq.	5.645
ID	in	2.250	Section Modulus	in Cu	3.490
Calculated Plain End Weight	Lbs/ft	19.191	Polar Section Modulus	in Cu	6.981
Cross Sectional Area OD	In Sq.	9.621	Tensile Strength	lbs	621,000
Cross Sectional Area ID	In Sq.	3.976	Torsional Strength	ft lbs	36,900
			80% Torsional Strength	ft lbs	29,520
			Internal Pressure Capacity	psi	34,375
Tensile Strength	lbs	621,000	Collapse Capacity	psi	32,270
Torsional Strength	ft-lbs	36,900			
80% Torsional Strength	ft-lbs	29,520	Tool Joint/Pipe Body/Torsional Ratio		0.480
		New			New
TOOLJOINT	_	(Nominal)	DRILL PIPE ASSEMBLY	<del>-</del>	(Nominal)
Connection Type		NC38 (3.500 IF)	Approx. Length	ft	31.00
Material Yield Strength	ksi	110	Adjusted Weight	lbs/ft	23.29
Outside Diameter (OD)	in	4.750			
Inside Diameter (ID)	in	2.250	Drift Size	in	2.125
Pin Tong Length	in	24.000	Maximum Upset OD	in	
Box Tong Length	in	24.000			
Pin shoulder Angle	deg		Fluid Displacement	gal/ft	0.356
Tensile Strength	lbs	725,000	Fluid Capacity	gal/ft	0.00493
Torsional Strength	ft-lbs	17,600			
Max. Make-Up Torque	ft-lbs	10,560			
max. make op rorque			1		
Min. Make-up Torque	ft-lbs	8,800			

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

The use of the information is based on the readers discretion. No warranty is implied or expressed by Tasman Oil Tools with the use of information contained herein. The information contained in this Performance Data Sheet is subject to revision without notice.