



3.5" NC38 HWDP PERFORMANCE DATA SHEET

IMPERIAL UNIT

Pipe Size & Weight: 3.500_20.36_lb/ft
 Pipe Grade: 110ksi Integral HWDP
 Range: 2
 Tool Joint: 4.750 OD x 2.250 ID

HWDP DIMENSIONS & MATERIALS			HWDP MECHANICAL PERFORMANCES		
PIPE		New (Nominal)	PIPE		NEW (Nominal)
Pipe Outside Diameter (OD)	in	3.500	Internal Pressure Capacity	psi	39,959
Pipe Inside Diameter (ID)	in	2.250	Cross Sectional Area Pipe Body	in Sq	5.645
Wall Thickness	in	0.625	Polar Section Modulus	in Cu	6.981
Calculated Plain End Weight	lbs/ft	20.360	Section Modulus	in Cu	3.490
Tensile Strength	lbs	620,955	Cross Sectional Area OD	in Sq	9.621
Torsional Strength	ft-lbs	36,922	Cross Sectional Area ID	in Sq	3.976
80% Torsional Strength	ft-lbs	29,538	Tool Joint / Pipe Body Torsional Ratio		0.476
HWDP TOOL JOINT			HWDP ASSEMBLY		
		New (Nominal)			New (Nominal)
Connection Type		NC-38	Approx. Length	ft	31.00
Material Yield Strength	ksi	110	Adjusted Weight	lbs/ft	26.00
Outside Diameter (OD)	in	4.750			
Inside Diameter (ID)	in	2.250	Drift Size	in	2.063
Pin Tong Length	in	36.000			
Box Tong Length	in	36.000	Fluid Displacement	gal/ft	0.397
Tensile Strength	lbs	601,163	Fluid Capacity	gal/ft	0.207
Torsional Strength	ft-lbs	17,587			
Max. Make-Up Torque	ft-lbs	12,300			
Min. Make-up Torque	ft-lbs	8,800			
Balanced OD	in	4.805			

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.