



DOC TITLE: DRILL PIPE PERFORMANCE DATA SHEET

DOC. NO. TAS-RT-DP-016

REV: NA

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DRILL PIPE PERFORMANCE DATA SHEET

IMPERIAL UNIT

Pipe Size & Weight: 3.500_15.500_lb/ft EU
Pipe Grade: S135
Range: 2
Tool Joint: 3.5" x 15.50" GP-NC38

DRILL PIPE DIMENSIONS & MATERIALS			DRILL PIPE WEAR & MECHANICAL PERFORMANCES			
PIPE		New (Nominal)	PIPE		New (Nominal)	API Premium
Pipe Size	In	3.50X15.5 lb/ft EU	Burst Pressure	in	30,310	27,700
Pipe Grade		S135	Collapse Pressure	in	30,190	26,050
Pipe Length Range 2 or 3		2	Slip Crushing Capacity	lbs.	453,100	356,500
ID	in	2.438	Assumed Slip Length	in		16.50
Calculated Plain End Weight	Lbs/ft	12.935	Assumed Transverse LF (K)			4.20
Cross Sectional Area OD	In Sq.	12.566	Adjusted Weight	ft lbs		17.81
Cross Sectional Area ID	In Sq.	8.762	Fluid Displacement	gal/ft		0.27
			Fluid Capacity	gal/ft		0.26
Tensile Strength	lbs					
Torsional Strength	ft-lbs					
80% Torsional Strength	ft-lbs					
TOOL JOINT			DRILL PIPE ASSEMBLY			
		New (Nominal)			New (Nominal)	
Connection Type		NC38	Approx. Length	ft	31.00	
Material Yield Strength	KSI	N/A	Adjusted Weight	lbs/ft	15.80	
Outside Diameter (OD)	In	5.000				
Inside Diameter (ID)	In	2.438	Drift Size	in	2.313	
Pin Tong Length	In	10.000	Maximum Upset OD	in	4.188	
Box Tong Length	In	12.500				
Pin shoulder Angle	Deg.	N/A	Fluid Displacement	gal/ft	0.241	
Tensile Strength	lbs	N/A	Fluid Capacity	gal/ft	0.436	
Torsional Strength	ft-lbs	N/A				
Max. Make-Up Torque	ft-lbs	13,200				
Min. Make-up Torque	ft-lbs	11,000				
Balanced OD	in	N/A				

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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