## COMPLETE

### **DRILL PIPE PERFORMANCE DATA SHEET**

Pipe Size: 4.750 in (121mm)	Grade:	S135	Range:	3
Pipe Weight: 17.5lb/ft (26.04kg/m)	Upset:	IEU	Connection:	480 DUO

Pipe								MEI	KIC
							NEW	<b>API PREMIUM</b>	
Pipe size	in	4.750	mm	120.7	OD	mm	120.7	117.2	
Pipe weight	lb/ft	17.50	kg/m	26.04	Thickness	mm	8.6	6.8	
Upset Type		IEU			X-Sec Area	cm <sup>2</sup>	30.1	23.7	
Tube grade		S135		Se	ction Modulus	cm³	78.9	61.9	
Range		3		Polar Se	ction Modulus	cm³	157.9	123.9	
Tube Yield	МРа	931			Tensile Yield	kdaN	281	221	
ID	mm	103.5			Torsional Yield	N-m	84,700	66,600	
				80%	Torsional Yield	N-m	67,800	53,300	
			Internal	Pressure Yield	МРа	115.8	105.5		
					Collapse Yield	МРа	103.4	65.5	
					D/t		14.09	17.12	
			Connec	tion/Tube 1	Torsional Ratio		0.679		
Tool Joint							ALENA	MET	RIC
		400 5110			0.5		NEW		
Connection Type	4.45	480 DUO		<b>-</b> "	OD	mm	142.9		
Material Yield Strength	МРа	896			Yield Strength	kdaN	367		
OD	mm	142.9	_		Yield Strength	N-m	57,500		
ID	mm	95.3			lakeup Torque	N-m	34,600		
Pin Shoulder Angle	deg	18	N	/laximum N	lakeup Torque	N-m	37,400		
Pin Tool Joint Length	mm	356							
Box Tool Joint Length	mm	356							
Drill Pipe Assembly								MET	RIC
z-m-ripe rissembly			9	Shoulder-Sh	oulder Length	m	13.26		
					ljusted Weight		26.54		
					Displacement	L/m	11.70		
					Displacement	L/m	3.38		
				5 p 5 1 1 2 1 1 4	Fluid Capacity	L/m	8.31		
					Drift Size	mm	92.1		
					Dilit Size	,,,,,,	32.1		

The information contained in this data sheet and other attached documentation is for reference use only. It is not intended to imply any explicit recommendation regarding processes, procedures, or performance of the end product. It is the responsibility of the end user to verify and determine the appropriate use of the technical information - no expressed or implied warranty by Complete Tubular Products is intended.

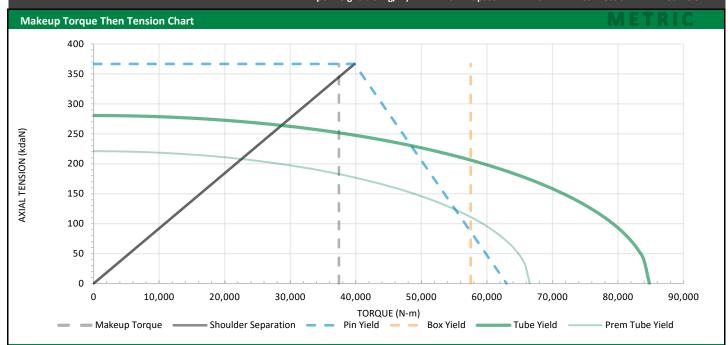
Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any used product. It is recommended that drilling torque not exceed 80% of the makeup torque, however it is the responsibility of the end user to determine the acceptable use of the end product including appropriate performance ratings and safety factors where applicable. All connection torque calculations have been performed using a thread compound friction factor of 1.0. Complete Tubular Products does not endorse any specific thread compound and waives all responsibility in determining appropriate makeup torque values for any specific drilling circumstance. Modifying makeup torque values for any reason shall be done at the end users discretion and risk.

The information in this publication is subject to change without notice, please contact Complete Tubular Products for the latest publication

# COMPLETE

### **DRILL PIPE PERFORMANCE DATA SHEET**

Pipe Size: (121mm) 0 Grade: S135 Range: 3
Pipe Weight: 3.04kg/m) 0 Upset: IEU Connection: 480 DUO



#### **Connection Wear Chart** 40,000 MAXIMUM CONNECTION OD **MAKEUP TORQUE** 35,000 (mm) (N-m) 142.9 37,400 30,000 34,900 141.3 25,000 TORQUE (N-m) 139.7 32,400 29,900 138.1 20,000 136.5 27,500 15,000 134.9 25,200 22,800 133.4 10,000 131.8 20,500 5,000 130.2 18,300 0 MIN REC OD (mm) 144.0 142.0 140.0 138.0 136.0 134.0 132.0 130.0 128.0 142.9 37,400 CONNECTION OD (mm)

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