

 DRILL PIPE PERFORMANCE DATA SHEET

 Pipe Size: 4.500 in (114mm)
 Grade:
 \$135
 Range:
 3

 pe Weight: 20lb/ft (29.76kg/m)
 Upset:
 IEU
 Connection:
 400

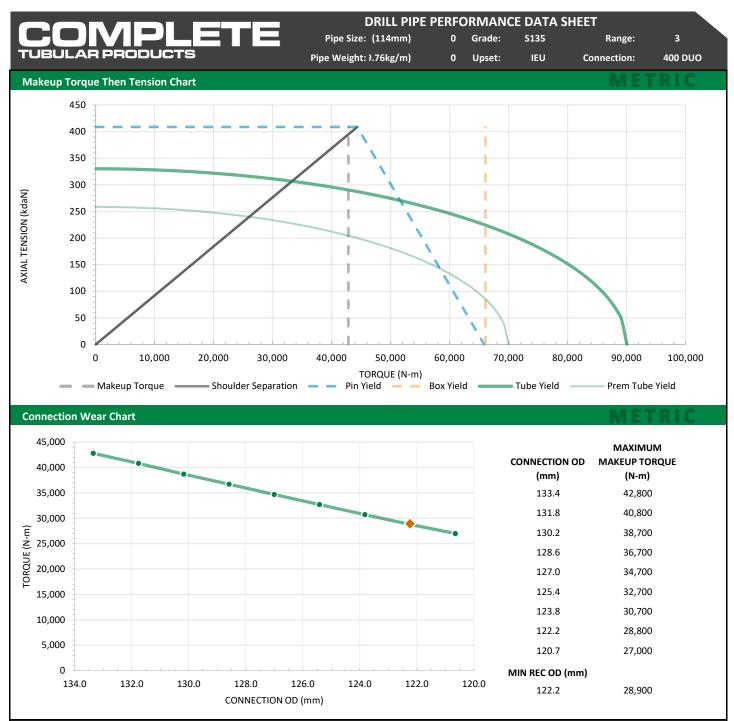
I UBULAR PRUL	Pipe	Pipe Weight: 20lb/ft (29.76kg/m)			IEU	Connection:	400 DUC				
Pipe									MET	RIC	
							NEW		API PREMIUM		
Pipe size	in	4.500	mm	114.3	OD	mm	114.3		109.9		
Pipe weight	lb/ft	20.00	kg/m	29.76	Thickness	mm	10.9		8.7		
Upset Type		IEU			X-Sec Area	cm ²	35.5		27.8		
Tube grade		S135	Section Modulus		cm ³	83.8		65.2			
Range		3	Polar Section Modulus			cm ³	167.7		130.3		
Tube Yield	МРа	931	Tensile Yield			kdaN	330		258		
ID	mm	92.5	Torsional Yield		N-m	90,000		70,000			
				80%	Torsional Yield	N-m	72,000		56,000		
				Internal Pressure Yie		МРа	155.8		142.0		
					Collapse Yield	МРа	160.6		129.6		
					D/t		10.47		12.58		
	Connection/Tube Torsional Ratio						0.732				
Tool Joint									MET	RIC	
							NEW				
Connection Type		400 DUO			OD	mm	133.4				
Material Yield Strength	МРа	896	Tensile Yield Strength		kdaN	409					
OD	тт	133.4		Torsiona	l Yield Strength	N-m	65,900				
ID	тт	68.3	Recom	mended N	Makeup Torque	N-m	39,600				
Pin Shoulder Angle	deg	18	Μ	1aximum N	Makeup Torque	N-m	42,800				
Pin Tool Joint Length	mm	356									
Box Tool Joint Length	mm	356									
Drill Pipe Assembly									MET	RIC	
			S	houlder-Sl	houlder Length	т	13.26				
				Ad	djusted Weight	kg/m	31.49				

Adjusted Weightkg/m31.49Closed End DisplacementL/m10.48Open End DisplacementL/m4.02Fluid CapacityL/m6.47Drift Sizemm65.1

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



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