COMPLETE TUBULAR PRODUCTS

DRILL PIPE PERFORMANCE DATA SHEET Pipe Size: 4.750 in (121mm) Grade: \$135 Range:

TUBULAR PROD	UCT	s		Pipe	Weight: 18.11lb/ft (26.95kg/m	Upset:	IEU	Connection:	450 DUO
Pipe									ME1	RIC
							NEW	A	PI PREMIUM	
Pipe size	in	4.750	mm	120.7	OD	mm	120.7		117.1	
Pipe weight	lb/ft	18.11	kg/m	26.95	Thickness	mm	8.9		7.1	
Upset Type		IEU			X-Sec Area	cm ²	31.2		24.6	
Tube grade		S135	Section Modulus		cm ³	81.3		63.7		
Range		3	Polar Section Modulus		cm ³	162.6		127.5		
Tube Yield	МРа	931			Tensile Yield	kdaN	290		229	
ID	mm	102.9			Torsional Yield	N-m	87,300		68,500	
				80%	Torsional Yield	N-m	69,800		54,800	
				Internal	Pressure Yield	МРа	120.0		109.6	
					Collapse Yield	МРа	111.7		72.4	
					D/t		13.57		16.46	
			Connec	tion/Tube ⁻	Torsional Ratio		0.942			
Tool Joint									MET	RIC
			_	_		_	NEW			
Connection Type		450 DUO			OD	mm	142.9			
Material Yield Strength	МРа	896		Tensile	Yield Strength	kdaN	473			
OD	mm	142.9		Torsional	Yield Strength	N-m	82,300			
ID	mm	73.0	Recom	nmended N	/lakeup Torque	N-m	49,400			
Pin Shoulder Angle	deg	18	N	/laximum N	/lakeup Torque	N-m	53,400			
Pin Tool Joint Length	mm	356								
Box Tool Joint Length	mm	356								
Drill Pipe Assembly									ME1	RIC

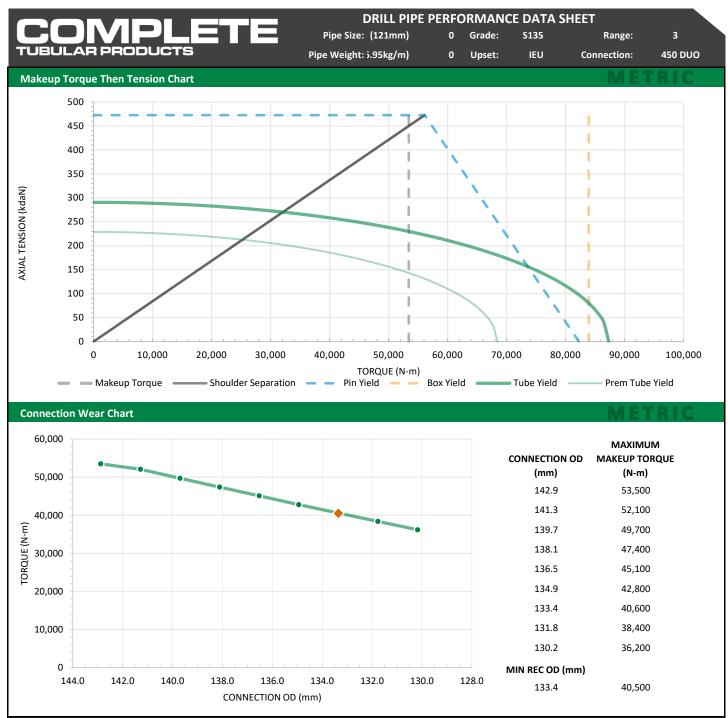
Shoulder-Shoulder Length	ı m	13.26	
Adjusted Weight	: kg/i	[/] m 29.22	
Closed End Displacement	: L/n	m 11.70	
Open End Displacement	: L/n	m 3.73	
Fluid Capacity	r L∕n	m 7.97	
Drift Size	e mn	m 69.9	

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

3



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