COMPLETE

 DRILL PIPE PERFORMANCE DATA SHEET

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

TUBULAR PROD	UCT	5		• Pip	e Weight: 16.6lb/ft (2	4.70kg/m)	Upset:	IEU	Connection:	DS40
Pipe									MET	RIC
							NEW		API PREMIUM	
Pipe size	in	4.500	mm	114.3	OD	mm	114.3		110.9	
Pipe weight	lb/ft	16.60	kg/m	24.70	Thickness	mm	8.6		6.8	
Upset Type		IEU			X-Sec Area	cm ²	28.4		22.4	
Tube grade		S135	Section Modulus			cm ³	70.0		54.8	
Range		2	Polar Section Modulus			cm ³	140.0		109.7	
Tube Yield	МРа	931			Tensile Yield	kdaN	265		208	
ID	mm	97.2		Torsional Yield		N-m	75,200		59,000	
				80%	% Torsional Yield	N-m	60,200		47,200	
				Intern	al Pressure Yield	МРа	122.0		111.7	
					Collapse Yield	МРа	115.8		75.8	
					D/t		13.35		16.19	
			Connec	tion/Tube	e Torsional Ratio		0.638			
Tool Joint									MET	RIC
							NEW			
Connection Type		DS40			OD	mm	133.4			
Material Yield Strength	MРа	896		Tensi	le Yield Strength	kdaN	374			
OD	mm	133.4			al Yield Strength	N-m	48,000			
ID	mm	68.3	Recom		Makeup Torque	N-m	28,700			
Pin Shoulder Angle	deq	18			· · · · · · · · · · · · · · · · · · ·		-,			
Pin Tool Joint Length	mm	356								
Box Tool Joint Length	mm	356								

Drill Pipe Assembly				METRIC
	Shoulder-Shoulder Length	т	9.60	
	Adjusted Weight	kg/m	27.99	
	Closed End Displacement	L/m	10.57	
	Open End Displacement	L/m	3.57	
	Fluid Capacity	L/m	7.00	
	Drift Size	mm	65.1	

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.

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