COMPLETE TUBULAR PRODUCTS

Pipe

DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: 4.500 in (114mm)	Grade:	S135	Range:	2
Pipe Weight: 16.6lb/ft (24.70kg/m)	Upset:	IEU	Connection:	430 DU

							NEW	API PREM	IIUM
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		Se	ction Modulus	cm³	70.0	54.8	
Range		2		Polar Se	ction Modulus	cm³	140.0	109.7	,
Tube Yield	МРа	931			Tensile Yield	kdaN	265	208	
ID	mm	97.2			Torsional Yield	ft-lbs	55,500	43,50	0
				80%	Torsional Yield	ft-lbs	44,400	34,80	0
				Internal	Pressure Yield	МРа	122.0	111.7	7
					Collapse Yield	МРа	115.8	75.8	
					D/t		13.35	16.19)
			Connec	tion/Tube ⁻	Torsional Ratio		0.781		
									CDN
Tool Joint									CDN
							NEW		
Connection Type		430 DUO			OD	mm	133.4		
Material Yield Strength	МРа	896			Yield Strength	kdaN	133.4 368		
Material Yield Strength OD	mm	896 133.4		Torsional	Yield Strength Yield Strength	kdaN ft-lbs	133.4 368 43,400		
Material Yield Strength OD ID	mm mm	896 133.4 76.2		Torsional nmended M	Yield Strength Yield Strength Makeup Torque	kdaN ft-lbs ft-lbs	133.4 368 43,400 26,000		
Material Yield Strength OD ID Pin Shoulder Angle	mm mm deg	896 133.4 76.2 18		Torsional nmended M	Yield Strength Yield Strength	kdaN ft-lbs ft-lbs	133.4 368 43,400		
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length	mm mm deg mm	896 133.4 76.2 18 356		Torsional nmended M	Yield Strength Yield Strength Makeup Torque	kdaN ft-lbs ft-lbs	133.4 368 43,400 26,000		
Material Yield Strength OD ID Pin Shoulder Angle	mm mm deg	896 133.4 76.2 18		Torsional nmended M	Yield Strength Yield Strength Makeup Torque	kdaN ft-lbs ft-lbs	133.4 368 43,400 26,000		
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 133.4 76.2 18 356		Torsional nmended M	Yield Strength Yield Strength Makeup Torque	kdaN ft-lbs ft-lbs	133.4 368 43,400 26,000		CDA
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 133.4 76.2 18 356	N	Torsional nmended M Maximum M	Yield Strength Yield Strength Jakeup Torque Jakeup Torque	kdaN ft-lbs ft-lbs ft-lbs	133.4 368 43,400 26,000 28,200		CDN
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 133.4 76.2 18 356	N	Torsional nmended M Maximum M	Yield Strength Yield Strength Alakeup Torque Alakeup Torque	kdaN ft-Ibs ft-Ibs ft-Ibs m	133.4 368 43,400 26,000 28,200		CDN
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length	mm mm deg mm	896 133.4 76.2 18 356	N S	Torsional nmended M Maximum M Shoulder-Sh Ac	Yield Strength Yield Strength Hakeup Torque Hakeup Torque Houlder Length Lijusted Weight	kdaN ft-lbs ft-lbs ft-lbs m kg/m	133.4 368 43,400 26,000 28,200 9.60 27.20	m³/m	CDN
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 133.4 76.2 18 356	N S	Torsional nmended M flaximum M Shoulder-Sh Ac Closed End	Yield Strength Yield Strength Alakeup Torque Alakeup Torque	kdaN ft-Ibs ft-Ibs ft-Ibs m kg/m L/m	133.4 368 43,400 26,000 28,200 9.60 27.20 10.57	m³/m m³/m	CDN 0.01057
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 133.4 76.2 18 356	N S	Torsional nmended M flaximum M Shoulder-Sh Ac Closed End	Yield Strength Yield Strength Yield Strength Makeup Torque Makeup Torque Moulder Length Mijusted Weight	kdaN ft-lbs ft-lbs ft-lbs m kg/m L/m	9.60 27.20 10.57 3.47	m³/m	0.00347
Material Yield Strength OD ID Pin Shoulder Angle Pin Tool Joint Length Box Tool Joint Length	mm mm deg mm	896 133.4 76.2 18 356	N S	Torsional nmended M flaximum M Shoulder-Sh Ac Closed End	Yield Strength Yield Strength Alakeup Torque Alakeup Torque	kdaN ft-Ibs ft-Ibs ft-Ibs m kg/m L/m	133.4 368 43,400 26,000 28,200 9.60 27.20 10.57	-	

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.

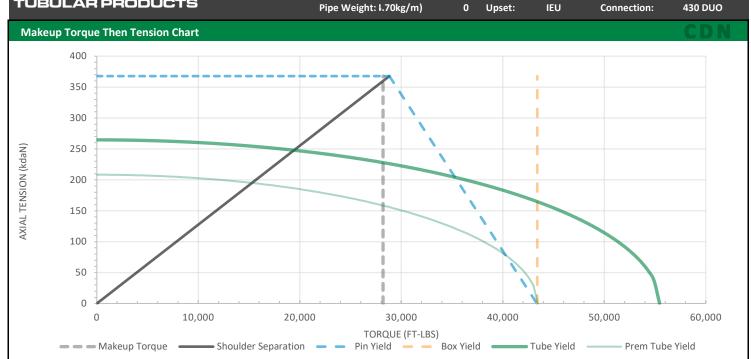
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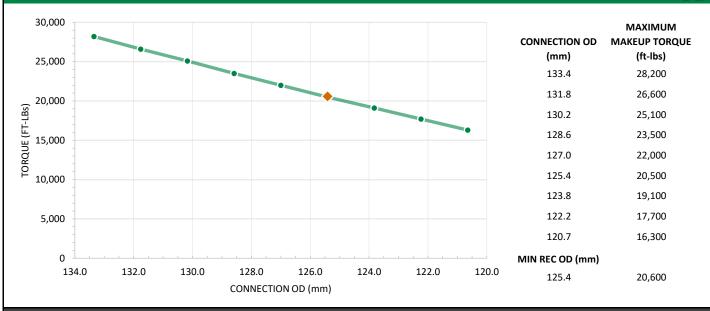
COMPLETE TUBULAR PRODUCTS

DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: (114mm) 0 Grade: S135 Range: 2



Connection Wear Chart



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