DLC drill pipe

DRILL PIPE PERFORMANCE DATA SHEET

4.500", 16.60#, S135, IEU, R2 DLC 425 - 5.250" X 3.000"

PIPE BODY SPECIFICATION							
OD	4.500	in					
ID	3.826	in					
Nominal Weight	16.60	lb/ft					
Grade	S135						
Tube Yield	135	ksi					
Range	2						
Upset Type	IEU						

PIPE BODY PERFORMANCE							
	NEW	PREMIUM					
OD	4.500	4.365	in				
Thickness	0.337	0.270	in				
X-Sec Area	4.407	3.469	in ²				
Tensile Yield	595,000	468,000	lbs				
Torsional Yield	55,500	43,500	ft-lbs				
Burst Capacity	19,200	16,200	psi				
Collapse Capacity	16,800	11,000	psi				
D/t	13.35	16.19					

TUBULAR ASSEMBLY	' SPECIFI	CATION
Shoulder Length	31.5	ft
Pin TJ Length	10	in
Box TJ Length	12	in
Adjusted Weight	17.68	lbs/ft
Fluid Capacity	0.575	gal/ft
	0.0137	bbl/ft
Closed End	0.845	gal/ft
Displacement	0.0201	bbl/ft
Open End	0.270	gal/ft
Displacement	0.0064	bbl/ft

All dimensions shown are presented as nominal unless otherwise stated - actual manufactured values may vary due to tolerancing. Calculations are based on uniform wall thickness and outside diameter with no safety factor applied. The information provided for inspection classes is based on uniform wear and is not intended to confirm operational limits of any specific used product.

CONNECTION SPECIFICATION							
Connection	DLC	425					
Yield Strength	130	ksi					
OD	5.250	in					
ID	3.000	in					
Drift Size	2.875	in					
Min OD	4.914	in					

CONNECTION PERFORMANCE							
Thread Compound Friction Factor	1.0 FF	1.05 FF	1.10 FF	.10 FF 1.15 FF			
Tensile Strength Ibs	786,400	786,400	786,400	786,400			
Torsional Strength ft-lbs	43,300	45,500	47,600	49,800			
Minimum Makeup Torque ft-lbs	21,700	22,800	23,900	25,000			
Standard Makeup Torque ft-lbs	26,000	27,300	28,600	29,900			
Enhanced Makeup Torque ft-lbs	30,300	31,800	33,300	34,800			

Connection torque calculations are performed using a thread compound friction factor (FF) of 1.0; values of FF other than 1.0 are provided for reference use only. DLC drill pipe does not endorse specific thread compounds and waives all responsibility in appropriate thread compound selection and performance. It is recommended that drilling torque not exceed 80% of the makeup torque and it remains the responsibility of the end user to determine the acceptable use of the end product including the determination of appropriate performance ratings and safety factors where applicable. Modifying makeup torque values for any reason shall be done at the end users discretion and risk. Elevator capacity is provided for reference only and shall not be interpreted as an engineered safe lifting load.

CONNECTION WEAR PERFORMANCE										
		MAKEUP TORQUE (ft-lbs)				ELEVATOR CAPACITY (lbs)				
Tool Joint OD	1.0 Friction Factor 1.15 Fricti		ion Factor		ı	Elevator Bore		4.781	in	
in	Standard	Enhanced	Standard	Enhanced		110,100 psi Stress			130,000 psi Stress	
	Makeup ft-lbs	Makeup ft-lbs	Makeup ft-lbs	Makeup ft-lbs		New	1/32" Wear		New	1/32" Wear
5.250	26,000	30,300	29,900	34,800		406,800	380,900		480,300	449,700
5.194	25,500	29,700	29,300	34,200		356,200	330,300		420,600	390,000
5.138	24,200	28,200	27,800	32,400		306,200	280,300		361,600	330,900
5.082	22,900	26,700	26,300	30,700		256,700	230,800		303,100	272,500
5.026	21,700	25,300	25,000	29,100		207,800	181,800		245,300	214,700
4.970	20,400	23,800	23,500	27,400		159,400	133,400		188,200	157,600
4.914	19,200	22,400	22,100	25,800		111,500	85,600		131,700	101,000



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