

Equipment No's: Ref. Enclosed page

Spec. No.:

HWDP-4-06

TECHNICAL SPECIFICATIONS

4" OD Heavy-Weight Drill Pipe, HW-105, TT-390 Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type

AISI-4130, 25.05 #

Range

2

Conventional=welded T-J. / Integral=Monoblock

Conventional

TUBE DATA

Material grade		AISI-4130M7 (105ksi)			
Internal plastic coating		TK-34P			
Tube body OD x ID	inch	4,000	2,563	3,713	2,563
Wall thickness, nominal	inch	0,719		0,575	
Cross Sectional Area	inch ²	7,409		5,670	
Polar Sectional Modulus	inch ³	10,450		7,770	
Tensile yield pipe	lbf	778 000		595 300	
	kN	3 460,7		2 648,0	
Torsional yield pipe	lbf-ft	52 760		39 230	
	kNm	71,5		53,2	
80% Torsional Yield	lbf-ft	42 208		31 384	
	kNm	57,2		42,6	

CONNECTIONS DATA

Connection type		TT-390			
Material grade		AISI-4130M7 (130ksi)			
Hardbanding		TCS Titanium			
OD x ID	inch	5,000	2,563	4,577	2,563
B.S.R.	x : 1	2,00		NA	
Tensile yield tooljoint	lbf	754 000		561 700	
	kN	3 354,0		2 498,6	
Torsional yield tooljoint	lbf-ft	47 200		35 200	
	kNm	64,0		47,7	
Make up torque (Max.)	lbf-ft	33 000		24 600	
	kNm	44,7		33,4	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio	=> 0.80	0,89		1,20	
Drift diameter	inch		2,438		
Type of elevator shoulder			18°		
Burst pressure	psi	33 020		30 200	
	MPa	228		208	
Collapse pressure	psi	30 950		27 490	
	MPa	213		190	
Adjusted weight	lbs/ft		28,9		
	kg/mtr		43,0		
Approx weight each joint	lbs		896		
	kg		406		
Capacity	gal/ft		0,269		
	ltr/mtr		3,34		
Open end displacement	gal/ft		0,44		
	ltr/mtr		5,46		
Closed end displacement	gal/ft		0,71		
	ltr/mtr		8,81		
Built In Length (shoulder to shoulder)	ft		31,00		
	mtr.		9,45		

Calculated using nominal OD & ID. Safety & Dope friction factor used: 1.0

Values herein is meant as guidelines only. Odfjell will not be held liable for any damage or injuries !

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Docs. # 1120175

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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-406	45	OWS-650 to OWS-694