

## TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-4-06

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

**New**

**Premium**

80% remaining Body Wall

**DESCRIPTION**

Type  
Range  
Conventional=welded T-J. / Integral=Monoblock

AISI-4130, 25.05 #  
2  
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 <sup>2</sup>		7,409		5,668
Polar Sectional Modulus	inch <sup>3</sup>		10,450		7,766
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

#### CONNECTION DATA

Connection type	TT-390				
Material grade	AISI-4145H (120 ksi)				
Hardbanding	TCS-Titanium				
OD x ID	inch	5,000	2,563	4,577	2,563
B.S.R.	x : 1		NA		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 Maximum	lbf-ft		33 000		24 600
	kNm		44,7		33,4

#### OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio		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		31,0	
	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 !

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-406	45	OWS-650 to OWS-694
OWS-HWDP-406	94	OWS-700 to OWS-793