

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5.5-12

**TECHNICAL SPECIFICATIONS**

**5-1/2" OD Heavy-Weight Drill Pipe, 4145, 5-1/2" FH Vam Eis Conn's.**

**New**

**Premium**

80% Remaining Body Wall

**DESCRIPTION**

Type AISI-4145, 56.44#  
Range 3  
Conventional=welded T-J. / Integral=Monoblock Integral

**TUBE DATA**

Material grade		AISI-4145H (110 ksi)			
Internal plastic coating		TK-34P / TC-2000			
Tube body OD x ID	inch	5,500	3,000	5,000	3,000
Wall thickness, nominal	inch	1,250		1,000	
Cross Sectional Area	inch <sup>2</sup>	16,690		12,566	
Polar Sectional Modulus	inch <sup>3</sup>	29,776		21,363	
Tensile yield pipe	lbf	1 835 900		1 382 300	
	<i>kN</i>	8 166		6 149	
Torsional yield pipe	lbf-ft	157 500		113 000	
	<i>kNm</i>	213,5		153,2	
80% Torsional Yield	lbf-ft	126 000		90 400	
	<i>kNm</i>	170,8		122,6	

**CONNECTIONS DATA**

Connection type		5-1/2" FH. Vam Eis			
Stress Relief Grooves		NA			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		Arnco-300XT / TCS Titanium			
OD x ID	inch	7,250	3,000	6,719	3,000
B.S.R.	x : 1	2,08		1,49	
Tensile yield tooljoint	lbf	1 591 000		950 200	
	<i>kN</i>	7 072		4 227	
Torsional yield tooljoint	lbf-ft	111 160		81 340	
	<i>kNm</i>	150,7		110,3	
Make up torque (Max.)	lbf-ft	63 400		46 400	
	<i>kNm</i>	86,0		62,9	

**OPERATIONAL DATA**

Tool-joint/Drill-pipe torsional ratio		0,71		0,98	
Drift diameter	inch		2,875		
Type of elevator shoulder			18°		
Burst pressure	psi	43 750		40 000	
	<i>Mpa</i>	302		276	
Collapse pressure	psi	38 640		35 200	
	<i>MPa</i>	266		243	
Adjusted weight	lbs/ft		63,44		
	<i>kg/mtr</i>		94,4		
Approx weight each joint	lbs		2 855		
	<i>kg</i>		1 295		
Capacity	gal/ft		0,368		
	<i>ltr/mtr</i>		4,57		
Open end displacement	gal/ft		0,97		
	<i>ltr/mtr</i>		12,05		
Closed end displacement	gal/ft		1,34		
	<i>ltr/mtr</i>		16,62		
Built In Length (shoulder to shoulder)	ft		45,0		
	<i>mtr.</i>		13,72		

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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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>	
OWS-HWDP-51210	8	9073-63440 9080-68950 9074-69004 9073-69042	9069-63510 9079-69050 9076-69037 9077-69043