

INSPECTION CERTIFICATE acc to EN 10 204 3.1

Processkontroll Items AB Box 2088 444 02 STORA HÖGA SWEDEN

INSPECTION STAMP QA-TUBE

Customer References		Sandvik Re	eference	S		
	Customer	Order No.	Subs N	O. ABSMI	Dispatch	note
708404	order	188069			-	
700101					754	
	2010-03-05					
		300-18173	46			
003-00991 ITEMS						
Material description Steel/material Designations						
SEAMLESS STAINLESS COLI	U THICUTO	Sandvik	LIUI DC	SS	,110	
	LINISUED					
HYDRAULIC TUBING		3R60		2353		
Steel making process						
Electric furnace						
Technical requirements						
SS 219713						
Condition No -24						
EXTENT OF DELIVERY						
It Product design			Pieces	Kg	М	
02 THT-3R60-12-1.5	045	7350 92892	15	35.0	90.0	0
12.00 X 1.50						
		Totol	15	35.0	90.0	0
		Total				0
KEY TO HEAT				EY TO LO		
Heat Code Heat No.			L	ot Code	Lot No.	
047350 523397			9	2892	4844176/	1-1
TEST RESULTS						
Chemical composition (v	reight%)					
Heat C Si	Mn	P S	5	Cr	Ni	Mo
047350 0.018 0.36	1.79	0.027 0	.008 1	7.27	13.20	2.52
N						
047350 0.036						
047350 0.030						
Tensile test at room te	emperature					
Yield str	ength 7	Censile stre	ength	Elongati	on	
MPa MI	-	I Pa	- J -	%		
				-		
_		Rm		A		
92892 256 28		549		58		
250 28	34 5	546		56		
Quality agguments Den Frikagen (0) menagen Fuke & Dine						

Quality assurance - Per Eriksson/ QA-manager Tube & Pipe MTC Service / Certificates

AB SANDVIK MATERIALS TECHNOLOGY Reg No. 556234-6832 VAT No. SE663000-060901 SE-81181 SANDVIKEN SWEDEN www.smt.sandvik.com mtc_service.smt@sandvik.com CERTIFICATE



Following controls/tests have been satisfactorily performed:

- Flattening test.

- PMI-test.
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.
- Leak test: Eddy current test acc to SS 114301/114305 E1
- Visual inspection and dimensional control.

Heat Treatment: Solution annealed and quenched.

The number of tests are based on the size of the manufacturing lot before cutting to finished lengths.

The delivered products comply with the specifications and requirements of the order.

The material is manufactured according to a Quality system, approved and registered to ISO 9001.

The certificate is produced with EDP and valid without signature.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO A100036