

INSPECTION CERTIFICATE acc to Processkontroll Items AB EN 10204 3.1

Box 2088 444 02 STORA HÖGA SWEDEN

INSPECTION STAMP QA-TUBE

Customer References	Sandvik References					
	Customer	Order No.	Subs No	ABSMT	Dispatch	note
753842	order	453591		31522	/54	
	2016-09-13	ABSMT No.	C.Code			
		300-52015	46			
003-00991 ITEMS						
Material description	Steel/material Designations					
SEAMLESS STAINLESS COLD	FINISHED	Sandvik SS				
HYDRAULIC TUBING		3R60 2353				
Steel making process						
Electric furnace						
Technical requirements						
SS 219713						
Condition No -24						
EXTENT OF DELIVERY						
It Product designa		t Lot P		Kg	M	0
01 THT-3R60-16-2	048	288 94575	43	180.0	258.0	0
16.00 X 2.00						
		Total	43	180.0	258.0	0
		IOLAI				0
KEY TO HEAT			KEY TO LOT Lot Code Lot No.			
Heat Code Heat No.						
048288 545349			94	575	183047	
TEST RESULTS	1.1.0.					
Chemical composition (we	-			a .	· · ·	
Heat C Si 048288 0.022 0.39	Mn	P S 0.033 0.		Cr	Ni 13.15	Mo
	1.0/	0.033 0.	011 1/	. 29	13.15	2.62
N 048288 0.034						
040200 0.034						
Tongilo togt at room ton	noratura					
Tensile test at room ten Yield stre		ensile stre	nath E	longati	~ ~	
MPa MPa		Pa		%	511	
Lot Rp0.2 Rp1		ra m	A			
94575 275 313		57		. 17		
281 316		60		:7 17		
286 321		65		: / 		
200 321	5		4	. /		
Quality assurance – Lars-Åke Bergqvist / QA-manager						
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 acc to EN ISO 8492 - 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 raw material is free from radioactive contamination. Material free from mercury contamination. 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 9001:2008. No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of AB Sandvik Materials Technology. Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in Section 6 of EN 10204:2004. Contravention of this notice will be prosecuted to the fullest extent of applicable law. The certificate is produced with EDP and valid without signature. TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 183047 REV 01

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