

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. ABSI	MT Dispatch	n note
753812/HOLMGREN	order	452769	61593	38 290	45/54	
	2016-09-05	ABSMT No.	C.Cod	le		
		300-51645				
003-00991 ITEMS			10			
Material description Steel/material Designations						
SEAMLESS STAINLESS COLD	FINISHED	Sandvik SS				
HYDRAULIC TUBING	IINIOIID	3R60		23	53	
		5100	2555			
Steel making process						
Electric furnace						
Technical requirements						
SS 219713						
Condition No -24						
EXTENT OF DELIVERY						
It Product designation Heat Lot Pieces Kg M						
01 THT-3R60-16-2 048293 94570 43 179.0				0 258.0	00	
16.00 X 2.00						
			4.0	1 - 0		
		Total			0 258.0	)0
KEY TO HEAT				KEY TO		
Heat Code Heat No.					e Lot No.	
048293 545400				94570	183048	
TEST RESULTS						
Chemical composition (we	ight%)					
Heat C Si	Mn		3	Cr	Ni	Mo
048293 0.018 0.43	1.63	0.034 0.	.0009	17.36	13.08	2.62
N						
048293 0.032						
Tensile test at room temperature						
Yield stre	ensile stre	ength	Elongation			
MPa MPa	-	Pa		~j %		
Lot Rp0.2 Rp1		m		A		
94570 262 296		61		<b>A</b> 46		
241 280		56		40 45		
264 297		59		43		
	J			TT		
Quality assurance - Lars-Åke Bergqvist / QA-manager						
Quality assurance - Lars-Ake 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. - 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 183048