

INSPECTION CERTIFICATE acc to EN 10204 3.1

Processkontroll Items AB Box 2088 444 02 STORA HÖGA SWEDEN

INSPECTION STAMP QA-TUBE

Customer References	Sandvik References					
	Customer	Order No.	Subs	No. ABSM	T Dispatch	note
753027	order	431788	60493	30 1759 [.]	4/54	
	2016-02-15	ABSMT No.	C.Cod	le		
		300-42259	46			
003-00991 ITEMS						
Material description	Steel/material Designations					
SEAMLESS STAINLESS COLD	FINISHED	Sandvik		SS		
HYDRAULIC TUBING		3R60 2353				
		2555				
Steel making process						
Electric furnace						
Technical requirements						
SS 219713						
Condition No -24						
EXTENT OF DELIVERY						
It Product designa	tion Hea	t Lot I			М	
01 THT-3R60-16-2 0482		240 93593	50	209.0	300.0	0
16.00 X 2.00						
		Total	50	209.0	300.0	0
KEY TO HEAT				KEY TO LO	ОТ	
Heat Code Heat No.				Lot Code	Lot No.	
048240 544179				93593		
TEST RESULTS						
Chemical composition (we	iaht%)					
Heat C Si	Mn	P S	5	Cr	Ni	Mo
048240 0.019 0.46		0.031 0.			13.07	2.53
	1.00	0.031 0.	.009	17.30	13.07	2.05
N 049240 0 044						
048240 0.044						
	_					
Tensile test at room tem			_	_		
Yield stre		ensile stre	ength	Elongat	ion	
MPa MPa		Pa		%		
Lot Rp0.2 Rp1		m		А		
93593 383 422		96		41		
380 419	5	96		41		
376 418	5	97		41		
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. - 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 181185