CERTIFICATE



INSPECTION CERTIFICATE acc to EN 10 204 3.1

Processkontroll Items AB Box 2088 444 02 STORA HÖGA SWEDEN

INSPECTION STAMP QA-TUBE

Capcomer	References		Sandvik R	eferences					
752248		Customer order 2015-08-	Order No. 414945	Subs No 595772 C.Code	. ABSMT D	ispatch note 4			
003-00991	ITEMS								
	description STAINLESS COLD TUBING	FINISHED	Steel/mat Sandvik 3R60 EN no 1.4435	erial Des	ignations AISI TP316/1	ГР316L			
Steel mak Electric	ing process furnace								
Technical requirements ASTM A-213-15A AW, ASME SA-213-ED-13 AW, ASTM A-269-13 NACE MR0175/ISO 15156-3:2009 PED 97/23/EC EN 10216-5 TC1 HRB MAX 80									
PED 97/23		TC1							
PED 97/23 HRB MAX 8		TC1							
PED 97/23 HRB MAX 8 EXTENT OF It 01 T	0	ation	Heat Lot 542165 44753	Pieces 3	Kg 19.0	M 18.00			
PED 97/23 HRB MAX 8 EXTENT OF It 01 T 2	0 DELIVERY Product designa HT-3R60-20-2.5 0.00 X 2.50	ation	542165 44753		19.0	18.00			
PED 97/23 HRB MAX 8 EXTENT OF It 01 T 2 TEST RESU	0 DELIVERY Product designa HT-3R60-20-2.5 0.00 X 2.50	ation :	542165 44753	3	19.0	18.00			

Quality assurance - Lars-Åke Bergqvist / QA-manager MTC Service / Certificates

1.56

Chemical composition, product (weight%)

0.45

Si Mn

Heat

С

Ν

542165 0.020

542165 0.048

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

Р

S

 P
 S
 Cr

 0.031
 0.009
 17.27

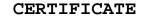
Cr

Ni

13.06

Mo

2.53





Tensile test		_						
		trength	Tensile strength	-				
Lot	MPA Rp0.2	MPa Rp1.0	MPa Rm	% A	% 2"			
44753		336	579	5 2	56			
	281	323	577	52	56			
- -								
Hardness test	: Min	Max						
Lot	HRB	HRB						
44753	77	78						
- Flattening - Flaring tes - PMI-test.	test. st		satisfactorily per		1:			
- Intergranular corrosion test acc to ASTM A-262 PR.E - Leak test: Eddy current test acc to EN 10246-2, ASME SA-1016. - Visual inspection and dimensional control.								
Heat Treatment: Solution annealed at a temperature of Min 1040° C and quenched.								
Marking: SANDVIK 3R60 ASTM/ASME A/SA-213 A-269 EN 10216-5 TC1 EN 10305-1 COLD AW EN 1.4 435 TP316/316L CFD SMLS NDE 20.00 X 2.50 MM HT 542165 SS LOT 44753 MADE BY SAN DVIK IN SWEDEN *QA-TUBE*								
The raw material is free from radioactive contamination.								
Material free	e from me	rcury contami	nation.					
Approved acc. AD 2000-Merkblatt W0 and certified acc. to Pressure Equipment Directive (97/23/EC) by TUEV NORD; notified body, reg.no. 0045.								
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.								
The certifica	te is pr	oduced with E	DP and valid withou	lt sigr	nature.			