

INSPECTION CERTIFICATE acc to Processkontroll Items AB EN 10 204 3.1

Box 2088 444 02 STORA HÖGA SWEDEN

INSPECTION STAMP QA-TUBE

Customer References			eferences						
752204	Customer order 2015-08-18	Order No. 414314 ABSMT No. 300-35007	596555 C.Code		T Dispatch 2/54	note			
003-00991 ITEMS		300-35007	29						
Material description SEAMLESS STAINLESS COLD INSTRUMENTATION TUBING	FINISHED	Steel/mat Sandvik 3R60 EN no 1.4435	erial Des:	AIS					
Steel making process Electric 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									
EXTENT OF DELIVERY It Product designa	tion Hea	t Lot	Pieces	Kg	м				
01 THT-3R60-9.53-1. 9.53 X 1.24		172 46656	5	8.0)			
		Total	5	8.0	30.00)			
KEY TO HEAT Heat Code Heat No.									
048172 540918									
TEST RESULTS									
Chemical composition (we Heat C Si	Mn	P		Cr	Ni	Mo			
048172 0.018 0.42 N	1.59	0.029 0	0.0090 17	.33	13.15	2.53			
048172 0.035									
Chemical composition, pr					_				
Heat C Si 048172 0.021 0.44	Mn 1.59	P 0.029 0		Cr .38	Ni 13.08	Mo 2.54			
N 048172 0.036		••••••							
0101/2 0.030									
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



Tensile test	at room	temperature					
		strength	Tensile strength	-			
Lot	MPa Rp0.2	MPa Rp1.0	MPa Rm	% % A 4D			
46656		340	569	50 47			
Hardness test	: Min	Max					
Lot	HRB	HRB					
46656	75	77					
<pre>Following controls/tests have been satisfactorily performed: - Flattening test Flaring test - PMI-test 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.</pre>							
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 CFA SMLS NDE 9.53 X 1.24 MM 3/8'' X 18 BWG/SWG HT 540918 SS LOT 46656 MADE BY SANDVIK IN SWEDEN *QA-TUBE*							
The raw material is free from radioactive contamination.							
Material free from mercury contamination.							
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.							
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The certificate is produced with EDP and valid without signature.							