

INSPECTION CERTIFICATE acc to EN 10 204 3.1

Processkontroll Items AB Box 2088 444 02 STORA HÖGA SWEDEN

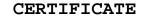
INSPECTION STAMP QA-TUBE

Customer References	Sandvik References				
	Customer			ABSMT Dispatch note	
750559/Holmgren	order	371976		25008/54	
	2014-06-04	ABSMT No.	C.Code		
		300-14758	15		
003-00991 ITEMS					
Material description		Steel/mater	rial Desig	gnations	
SEAMLESS STAINLESS COLD	FINISHED	Sandvik		AISI	
HYDRAULIC TUBING		3R60		TP316/TP316L	
		EN no			
		1.4435			
Stool molting process					
Steel making process Electric furnace					
Technical requirements		י דיז הי הי 1 1 בו ה		1.1.2	
ASTM A-213-13 AW, ASME S		AD-IIA AW, A	ASIM A-26	9-⊥3	
NACE MR0175/ISO 15156-3:					
PED 97/23/EC EN 10216-5	TCl				
HRB MAX 80					

EXTENT O	F DELIVE	RY							
It	Product	designat	cion	Heat	Lot	Pieces	Kg	. M	ſ
01	THT-3R60	-25-3		538075	23634	4	39.	0 24.	00
	25.00 X	3.00							
					Total	4	39.	0 24.	00
TEST RES	ULTS								
Chemical	composi	tion (we	ight%)						
Heat	C_	Si	Mn	Р		S	Cr	Ni	Mo
538075	0.015	0.40	1.67	0.0	29 (	0.008	17.36	13.10	2.58
	N								
538075	0.042								
Chemical composition, product (weight%)									
Heat	C	Si	Mn	Р		S	Cr	Ni	Mo
538075	0.016	0.40	1.66	0.0	31 (	0.007	17.35	13.11	2.57
	N								
538075	0.044								

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	n temperature				
	Yield	strength	Tensile strength	-	gation	
	MPA	MPa	MPa	%	% •	
<b>Lot</b> 23634	<b>Rp0.2</b> 270	<b>Rp1.0</b> 308	<b>Rm</b> 590	<b>A</b> 53	<b>2"</b> 59	
23034	268		589	54	61	
	200	500	202	51	01	
Hardness test	5					
	Min	Max				
Lot	HRB	HRB				
23634	75	75				
<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.</pre>						
- Visual insp	pection	and dimensiona	al control.			
Heat Treatment: Solution annealed at a temperature of Min 1040° C and quenched.						
Marking: SANDVIK 3R60 ASTM/ASME A/SA-213AW A-269 EN 10216-5 TC1 EN 10305-1 EN 1.4435 TP 316/316L COLD SMLS NDE 25.00 X 3.00 MM HT 538075 SS LOT 23634 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.						
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 certifica	ate is p	produced with 1	EDP and valid withou	ıt sigı	nature.	