

**CERTIFICATE****No. A/13-356561****Rev 00****Date 2013-08-27****Page 1/2**INSPECTION CERTIFICATE acc to  
EN 10 204 3.1Processkontroll Items AB  
Box 2088  
444 02 STORA HÖGA  
SWEDENINSPECTION STAMP  
QA-TUBE

Customer References		Sandvik References		
713138	Customer order 2013-08-27	Order No. 342388	Subs No. 556155	ABSMT Dispatch note 05665/54
003-00991	ITEMS	ABSMT No. 300-90929	C.Code 13	

Material description	Steel/material Designations
SEAMLESS STAINLESS COLD FINISHED INSTRUMENTATION TUBING	Sandvik UNS 2RK65 N08904
<b>Steel making process</b> Electric furnace	

Technical requirements
ASTM A-269-10

EXTENT OF DELIVERY									
It	Product designation	Heat	Lot	Pieces	Kg	M			
01	THT-2RK65-6.35-1.65 6.35 X 1.65	047872	97910	1	1.0	6.00			
				Total	1	6.00			
<b>KEY TO HEAT</b>			<b>KEY TO LOT</b>						
Heat Code	Heat No.	Lot Code	Lot No.						
047872	531595	97910	365867						
<b>TEST RESULTS</b>									
Chemical composition (weight%)									
Heat	C	Si	Mn	P	S	Cr	Ni	Mo	
047872	0.008	0.41	1.62	0.020	0.001	20.45	25.01	4.20	
	Cu	N							
047872	1.53	0.059							
Chemical composition, product (weight%)									
Lot	C	Si	Mn	P	S	Cr	Ni	Mo	
97910	0.010	0.40	1.61	0.022	0.001	20.40	24.99	4.19	
	Cu	N							
97910	1.52	0.048							
<b>Quality assurance - Ulrik Rodling / QA-manager</b> <b>MTC Service / Certificates</b>									

**Tensile test at room temperature**

	<b>Yield strength</b>	<b>Tensile strength</b>	<b>Elongation</b>
	<b>MPa</b>	<b>MPa</b>	<b>%</b>
<b>Lot</b>	<b>Rp0.2</b>	<b>Rm</b>	<b>4D</b>
97910	291	631	46

**Hardness test**

	<b>Min</b>	<b>Max</b>
<b>Lot</b>	<b>HRB</b>	<b>HRB</b>
97910	81	82

**Following controls/tests have been satisfactorily performed:**

- Flaring test
- PMI-test.
- Leak test: Eddy current test acc to ASTM A-1016.
- 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.

The certificate is produced with EDP and valid without signature.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 00046850