

**CERTIFICATE****No. A/14-453074 Rev 00**  
**Date 2014-10-24 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	
751085/Philip	Customer order 2014-10-24	Order No. 385875	Subs No. 580277
003-00991 ITEMS		ABSMT No. 300-20950	Dispatch note 33911/54
		C.Code 13	

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

Technical requirements
ASTM A-269-13

EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-2RK65-6.35-0.89 6.35 X .89	540207	33503	2	1.0	12.00		
				Total	2	1.0	12.00	
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
540207	0.009	0.41	1.66	0.021	<0.0005	20.17	24.94	4.25
	Cu	N						
540207	1.35	0.054						
Chemical composition, product (weight%)								
Lot	C	Si	Mn	P	S	Cr	Ni	Mo
33503	0.010	0.41	1.68	0.022	<0.001	20.08	24.93	4.27
	Cu	N						
33503	1.35	0.054						
Quality assurance - Lars-Åke Bergqvist / QA-manager								
MTC Service / Certificates								

**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>
33503	285	605	44
	289	608	44

**Hardness test**

	<b>Min</b>	<b>Max</b>
<b>Lot</b>	<b>HRB</b>	<b>HRB</b>
33503	72	74

**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.

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