

INSPECTION CERTIFICATE acc to  
EN 10204 3.1Processkontroll Items AB  
Box 2088  
444 02 STORA HÖGA  
SWEDENINSPECTION STAMP  
QA-TUBE

Customer References		Sandvik References		
753044/Holmgren	Customer order 2016-02-17	Order No.	Subs No.	ABSMT Dispatch note
		432046	605068	14994/54
003-00991 ITEMS		ABSMT No.	C.Code	
		300-42361	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-269-14

EXTENT OF DELIVERY									
It	Product designation	Heat	Lot	Pieces	Kg	M			
01	THT-2RK65-12.7-1.24 12.70 X 1.24	544014	50058	8	17.0	48.00			
				Total	8	17.0	48.00		
TEST RESULTS									
Chemical composition (weight%)									
Heat	C	Si	Mn	P	S	Cr	Ni	Mo	
544014	0.008	0.38	1.60	0.024	<0.0005	20.43	24.90	4.14	
	Cu	N							
544014	1.36	0.053							
Chemical composition, product (weight%)									
Heat	C	Si	Mn	P	S	Cr	Ni	Mo	
544014	0.008	0.38	1.60	0.024	<0.001	20.39	24.93	4.09	
	Cu	N							
544014	1.35	0.056							

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>2"</b>
50058	328	617	37
	328	620	39

**Hardness test**

	<b>Min</b>	<b>Max</b>
<b>Lot</b>	<b>HRB</b>	<b>HRB</b>
50058	77	79

**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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