

**CERTIFICATE****No. A/16-601986****Rev 00****Date 2016-09-08****Page 1/2**INSPECTION CERTIFICATE acc to  
EN 10204 3.1Processkontroll Items AB  
Box 2088  
444 02 STORA HÖGA  
SWEDENINSPECTION STAMP  
QA-TUBE

Customer References		Sandvik References	
753830	Customer order 2016-09-08	Order No. 453135	Subs No. 616098
003-00991	ITEMS	ABSMT No. 300-51808	Dispatch note 28135/54
		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-269-15A

EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-2RK65-12.7-1.24 12.70 X 1.24	545341	57313	10	22.0	60.00		
				Total	10	22.0	60.00	
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
545341	0.012	0.40	1.70	0.024	<0.0005	20.17	24.94	4.21
	Cu	N						
545341	1.39	0.056						
Chemical composition, product (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
545341	0.010	0.41	1.68	0.023	<0.001	20.15	24.82	4.20
	Cu	N						
545341	1.39	0.050						
Quality assurance - Lars-Åke Bergqvist / QA-manager								
MTC Service / Certificates								

**Tensile test at room temperature**

	Yield strength	Tensile strength	Elongation
	MPa	MPa	%
Lot	Rp0.2	Rm	2"
57313	306	611	44
	300	604	45

**Hardness test**

	Min	Max
Lot	HRB	HRB
57313	68	71

**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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