

**CERTIFICATE****No. A/16-551131****Rev 00****Date 2016-01-20****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**Customer  
order  
2016-01-20  
  
003-00991 ITEMS**Sandvik References**Order No. Subs No. ABSMT Dispatch note  
429090 603385 13099/54  
ABSMT No. C.Code  
300-40892 13**Material description**SEAMLESS STAINLESS COLD FINISHED  
INSTRUMENTATION TUBING**Steel making process**  
Electric furnace**Steel/material Designations**Sandvik UNS  
2RK65 N08904**Technical requirements**

ASTM A-269-14

**EXTENT OF DELIVERY**

It	Product designation	Heat	Lot	Pieces	Kg	M
02	THT-2RK65-12.7-1.24 12.70 X 1.24	544014	50058	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
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**

	Yield strength	Tensile strength	Elongation
	MPa	MPa	%
Lot	Rp0.2	Rm	2"
50058	328	617	37
	328	620	39

**Hardness test**

	Min	Max
Lot	HRB	HRB
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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