

**CERTIFICATE****No. A/14-451091****Rev 00****Date 2014-10-15****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**Customer
Rolf Söderström order
2014-10-14

003-00991 ITEMS**Sandvik References**Order No. Subs No. ABSMT Dispatch note
384794 579753 33279/54
ABSMT No. C.Code
300-20514 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-269-13

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**

	Yield strength	Tensile strength	Elongation
	MPa	MPa	%
Lot	Rp0.2	Rm	4D
33503	285	605	44
	289	608	44

Hardness test

	Min	Max
Lot	HRB	HRB
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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