

**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		Sandvik References		
752883	Customer order 2016-01-20	Order No.	Subs No.	ABSMT Dispatch note
		429090	603385	13099/54
003-00991	ITEMS	ABSMT No.	C.Code	
		300-40892	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-269-14

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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