

**CERTIFICATE****No. A/15-516995 Rev 00**
Date 2015-08-13 Page 1/2INSPECTION CERTIFICATE acc to
EN 10 204 3.1Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDENINSPECTION STAMP
QA-TUBE

Customer References		Sandvik References	
752191/ Johansson	Customer order 2015-08-12	Order No. 413837	Subs No. 595161
003-00991 ITEMS		ABSMT No. 300-33765	Dispatch note 02652/54
		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-269-13

EXTENT OF DELIVERY								
It	Product designation		Heat	Lot	Pieces	Kg	M	
01	THT-2RK65-12.7-1.24 12.70 X 1.24		542074	43548	30	65.0	180.00	
Total					30	65.0	180.00	
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
542074	0.012	0.43	1.55	0.022	0.0005	20.27	24.99	4.23
	Cu	N						
542074	1.38	0.060						
Chemical composition, product (weight%)								
Lot	C	Si	Mn	P	S	Cr	Ni	Mo
43548	0.014	0.44	1.54	0.024	<0.001	20.19	25.03	4.24
	Cu	N						
43548	1.37	0.058						
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"
43548	330	622	46
	325	619	44

Hardness test

	Min	Max
Lot	HRB	HRB
43548	76	78

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.

No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of AB Sandvik Materials Technology. Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in Section 6 of EN 10204:2004. Contravention of this notice will be prosecuted to the fullest extent of applicable law.

The certificate is produced with EDP and valid without signature.