



CERTIFICATE

No. A/14-450840

Rev 00

Date 2014-10-14

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INSPECTION CERTIFICATE acc to
EN 10 204 3.1

Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDEN

INSPECTION STAMP
QA-TUBE

Customer References		Sandvik References		
Rolf Söderström	Customer order 2014-10-14	Order No. 384794	Subs No. 579708	ABSMT Dispatch note 33187/54
003-00991	ITEMS	ABSMT No. 300-20476	C.Code 13	

Material description SEAMLESS STAINLESS COLD FINISHED INSTRUMENTATION TUBING	Steel/material Designations Sandvik UNS 2RK65 N08904
Steel making process Electric furnace	

Technical requirements ASTM A-269-13
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EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-2RK65-12.7-1.24 12.70 X 1.24	539156	31002	12	25.0	72.00		
				Total	12	25.0	72.00	
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
539156	0.012	0.41	1.63	0.020	<0.0005	20.36	24.95	4.17
	Cu	N						
539156	1.45	0.064						
Chemical composition, product (weight%)								
Lot	C	Si	Mn	P	S	Cr	Ni	Mo
31002	0.015	0.49	1.47	0.021	<0.001	20.17	25.04	4.22
	Cu	N						
31002	1.45	0.067						

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"
31002	319	642	41
	311	624	43

Hardness test

	Min	Max
Lot	HRB	HRB
31002	81	82

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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