



CERTIFICATE

No. A/13-356561

Rev 00

Date 2013-08-27

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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	
713138	Customer order 2013-08-27	Order No. 342388	Subs No. 556155
003-00991	ITEMS	ABSMT No. 300-90929	C.Code 13
		ABSMT Dispatch note 05665/54	

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

Technical requirements ASTM A-269-10
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EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-2RK65-6.35-1.65 6.35 X 1.65	047872	97910	1	1.0	6.00		
				Total	1	6.00		
					1.0	6.00		
KEY TO HEAT			KEY TO LOT					
Heat Code	Heat No.		Lot Code	Lot No.				
047872	531595		97910	365867				
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
047872	0.008	0.41	1.62	0.020	0.001	20.45	25.01	4.20
	Cu	N						
047872	1.53	0.059						
Chemical composition, product (weight%)								
Lot	C	Si	Mn	P	S	Cr	Ni	Mo
97910	0.010	0.40	1.61	0.022	0.001	20.40	24.99	4.19
	Cu	N						
97910	1.52	0.048						

Quality assurance - Ulrik Rodling / QA-manager
MTC Service / Certificates

**Tensile test at room temperature**

	Yield strength	Tensile strength	Elongation
	MPa	MPa	%
Lot	Rp0.2	Rm	4D
97910	291	631	46

Hardness test

	Min	Max
Lot	HRB	HRB
97910	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.

The certificate is produced with EDP and valid without signature.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 00046850