



CERTIFICATE

No. A/16-572094

Rev 00

Date 2016-04-18

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INSPECTION CERTIFICATE acc to
EN 10204 3.1

Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDEN

INSPECTION STAMP
QA-TUBE

Customer References		Sandvik References	
753195	Customer order 2016-03-22	Order No. 435705	Subs No. 607070
003-00991	ITEMS	ABSMT No. 300-44049	C.Code 13
		ABSMT Dispatch note 19262/54	

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

Technical requirements ASTM A-269-15A

EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
02	THT-2RK65-12.7-1.24 12.70 X 1.24	544245	54103	7	15.0	42.00		
				Total	7	15.0	42.00	
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
544245	0.009	0.42	1.77	0.022	0.0005	20.19	24.96	4.22
	Cu	N						
544245	1.52	0.057						
Chemical composition, product (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
544245	0.011	0.42	1.76	0.022	<0.001	20.14	24.79	4.20
	Cu	N						
544245	1.51	0.064						

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"
54103	282	596	45
	295	599	43

Hardness test

	Min	Max
Lot	HRB	HRB
54103	75	77

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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