



CERTIFICATE

No. A/18-757220

Rev 00

Date 2018-07-11

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INSPECTION CERTIFICATE acc to
EN 10204 3.1

Processkontroll Items AB
Box 2088
444 02 STORA H@GA
SWEDEN

INSPECTION STAMP
QA-TUBE

Customer References		Sandvik References		
756643	Customer order 2018-07-10	Order No. 518500	Subs No. 655677	ABSMT Dispatch note 25508/54
003-00991	ITEMS	ABSMT No. 300-83619	C.Code 05	

Material description SEAMLESS STAINLESS COLD FINISHED INSTRUMENTATION TUBING	Steel/material Designations Sandvik UNS 2RK65 N08904 EN no 1.4539
Steel making process Electric furnace	

Technical requirements ASTM A-269-15A, ASTM A-213-17 PED 2014/68/EU EN 10216-5 TC1 NACE MR0175/ISO 15156-3:2015

EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-2RK65-12.7-1.24 12.70 X 1.24	048520	95685	25	55.0	150.00		
				Total	25	55.0	150.00	
KEY TO HEAT				KEY TO LOT				
Heat Code	Heat No.			Lot Code	Lot No.			
048520	547689			95685	0002000862			
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
048520	0.007	0.41	1.60	0.020	<0.0005	20.30	25.05	4.20
	Cu	N						
048520	1.38	0.058						

Quality assurance - Sofia Åkesson / Q-Manager
MTC Service / Certificates

**Chemical composition, product (weight%)**

Lot	C	Si	Mn	P	S	Cr	Ni	Mo
95685	0.011	0.41	1.58	0.021	<0.001	20.24	24.98	4.22
	Cu	N						
95685	1.37	0.056						

Tensile test at room temperature

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
	Rp0.2	Rp1.0	Rm	A	2"
95685	347	383	653	38	38
	339	373	645	39	38
	348	382	647	38	37

Hardness test

Lot	Min	Max
	HRB	HRB
95685	78	78
	79	79

Following controls/tests have been satisfactorily performed:

- Flattening test.
- Flaring test
- 100% PMI-test.
- Intergranular corrosion test acc to ASTM A-262 PR.E
- Leak test: Eddy current test acc to ASTM A-1016.
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

Marking:

SANDVIK 2RK65 ASTM A213/A269 ASME SA213 COLD EN10216-5 TC1 EN10305-1 . EN 1.45
39 COLD SML NDE 12.70 X 1.24 MM 1/2'' X 18 BWG/SWG HT 547689 SG LOT 0002000862
MADE BY SANDVIK *QA-TUBE*

The raw material is free from radioactive contamination.

Material free from mercury contamination.

Approved acc. AD 2000-Merkblatt W0 and certified acc. to
Pressure Equipment Directive (2014/68/EU, Annex 1 para 4.3) by
TUEV NORD; notified body, reg.no. 0045.

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 9001:2015.



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The certificate is produced with EDP and valid without signature.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 0002000862