



CERTIFICATE

A03/Z02
No. A/19-848399 Rev 00
Date 2019-10-04 Page 1/3

A02/Z03
INSPECTION CERTIFICATE acc to
EN 10204 3.1

A06
PROCESSKONTROLL ITEMS AB
BOX 2088
444 02 STORA HÖGA
SWEDEN

INSPECTION STAMP
QA-TUBE

Customer References	A07	Sandvik References	A08
758532	Customer order 2019-10-04	Order No. 543313 ABSMT No. 300-12073	Subs No. 675715 C.Code 05
003-00991	ITEMS	ABSMT Dispatch note 05054/54	

Material description	B01/B04	Steel/material Designations	B02
SEAMLESS STAINLESS COLD FINISHED INSTRUMENTATION TUBING		Sandvik 2RK65 EN no 1.4539	UNS N08904
Steel making process Electric furnace	C70		

Technical requirements	B03
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							B07-B13	
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-2RK65-12.7-1.65 12.70 X 1.65	048482	95652	15	41.0	90.00		
				Total	15	41.0	90.00	
KEY TO HEAT				KEY TO LOT				
Heat Code	Heat No.			Lot Code	Lot No.			
048482	548964			95652	0002000336			
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
048482	0.013	0.42	1.61	0.023	<0.0005	20.22	25.20	4.29
	Cu	N						
048482	1.34	0.050						

Quality assurance - Sofia Åkesson / Q-Manager	A05/Z02
MTC Service / Certificates	



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

Lot	C	Si	Mn	P	S	Cr	Ni	Mo
95652	0.014	0.40	1.59	0.021	0.001	20.12	25.16	4.26
	Cu	N						
95652	1.33	0.047						

Tensile test at room temperature

Lot	Yield strength		Tensile strength MPa	Elongation	
	MPa	MPa		%	%
Lot	Rp0.2	Rp1.0	Rm	A	2"
95652	280	313	593	46	47
	283	317	593	45	44

Hardness test

Lot	Min	Max
	HRB	HRB
95652	74	74
	75	75

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 1.65 MM 1/2'' X 16 BWG/SWG HT 548964 SG LOT 0002000336
MADE BY SANDVIK *QA-TUBE*

The raw material is free from radioactive contamination.

Material free from mercury contamination.

No welding or weld repair.

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 0002000336

