



CERTIFICATE

A03/Z02
No. A/20-866651 Rev 00
Date 2020-01-09 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
758898	Customer order 2019-12-13	Order No. Subs No. ABSMT Dispatch note 546881 678609 10783/54	
003-00991 ITEMS		ABSMT No. C.Code 300-14758 05	

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

Technical requirements	B03
ASTM A-269-15A, ASTM A-213-18B 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		
02	THT-2RK65-12.7-1.24 12.70 X 1.24	549096	17571	10	22.0	60.00		
				Total	10	22.0	60.00	
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
549096	0.009	0.40	1.57	0.023	0.0005	20.27	24.88	4.21
	Cu	N						
549096	1.43	0.058						
Chemical composition, product (weight%)								
Lot	C	Si	Mn	P	S	Cr	Ni	Mo
17571	0.013	0.40	1.57	0.025	<0.001	20.24	24.99	4.23
	Cu	N						
17571	1.44	0.055						

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



**Tensile test at room temperature**

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
	Rp0.2	Rp1.0	Rm	A	2"
17571	356	387	635	41	40
	338	366	622	43	42

Hardness test

Lot	Min	Max
	HRB	HRB
17571	77	78
	76	77
	76	76
	76	77
	76	78
	77	78

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 COLD EN10216-5 TC1 AW UNS N08904 EN 1.4539 CFA SM
L NDE 12.70 X 1.24 MM 1/2'' X 18 BWG/SWG HT 549096 SS LOT 17571 MADE IN SWEDEN
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.





No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of AB Sandvik Materials Technology. Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in Section 6 of EN 10204:2004. Contravention of this notice will be prosecuted to the fullest extent of applicable law.

The certificate is produced with EDP and valid without signature.

