



CERTIFICATE

A03/Z02
No. A/19-855467 Rev 00
Date 2019-11-06 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
758699	Customer order 2019-11-06	Order No. 544957 ABSMT No. 300-13327	Subs No. 677059 C.Code 05
003-00991	ITEMS	ABSMT Dispatch note 07355/54	

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-213-18B 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	17570	10	21.0	60.00		
				Total	10	21.0 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
17570	0.009	0.42	1.55	0.024	<0.001	20.28	25.05	4.23
	Cu	N						
17570	1.44	0.059						

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"
17570	322	348	613	41	41
	329	353	617	43	40

Hardness test

Lot	Min	Max
	HRB	HRB
17570	76	78
	77	77
	76	77
	75	75
	75	76
	77	78
	75	76
	77	77

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 17570 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.





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