



CERTIFICATE

A03/Z02

No. A/20-893782

Rev 00

Date

2020-05-25

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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 759601 Customer order 2020-05-19 003-00991 ITEMS	Sandvik References A08 Order No. Subs No. ABSMT Dispatch note 554424 684746 19267/54 ABSMT No. C.Code 300-20298 05
Material description B01/B04 SEAMLESS STAINLESS COLD FINISHED INSTRUMENTATION TUBING Metallurgical process C70 Electric furnace	Steel/material Designations B02 Sandvik UNS 2RK65 N08904 EN no 1.4539

Technical requirements B03 ASTM A-269-15A, ASTM A-213-18 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-2RK65-6.35-0.89 6.35 X .89	548896	47572	10	7.0	60.00		
				Total	10	7.0 60.00		
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
548896	0.015	0.38	1.58	0.023	0.0008	20.25	24.84	4.20
	Cu	N						
548896	1.62	0.057						
Chemical composition, product (weight%)								
Lot	C	Si	Mn	P	S	Cr	Ni	Mo
47572	0.014	0.38	1.60	0.023	0.0008	20.22	24.93	4.20
	Cu	N						
47572	1.61	0.059						

Quality assurance - Sofia Åkesson / Q-Manager MTC Service / Certificates	A05/Z02
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A01



Tensile test at room temperature

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
	Rp0.2	Rp1.0	Rm	A	4D
47572	350	383	635	48	44
	348	379	631	45	44

Hardness test

Lot	Min	Max
	HRB	HRB
47572	72	72
	72	73

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 6.35 X 0.89 MM 1/4'' X 20 BWG/SWG HT 548896 SS LOT 47572 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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The certificate is produced with EDP and valid without signature.

