



**CERTIFICATE**

**No. A/18-780791 Rev 00**

Date 2018-10-31 Page 1/3

INSPECTION CERTIFICATE acc to  
EN 10204 3.1

Processkontroll Items AB  
Box 2088  
444 02 STORA HÖGA  
SWEDEN

INSPECTION STAMP  
QA-TUBE

<b>Customer References</b>	<b>Sandvik References</b>
756903	Order No. Subs No. ABSMT Dispatch note
	522828 659185 32245/54
003-00991 ITEMS	Customer order 2018-09-19
	ABSMT No. C.Code
	300-86486 05

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

<b>Technical requirements</b>
ASTM A-269-15A, ASTM A-213-18
PED 2014/68/EU EN 10216-5 TC1
NACE MR0175/ISO 15156-3:2015

<b>EXTENT OF DELIVERY</b>								
<b>It</b>	<b>Product designation</b>	<b>Heat</b>	<b>Lot</b>	<b>Pieces</b>	<b>Kg</b>	<b>M</b>		
01	THT-2RK65-6.35-0.89 6.35 X .89	548896	47572	4	3.0	24.00		
				<b>Total</b>	<b>4</b>	<b>3.0</b>	<b>24.00</b>	
<b>TEST RESULTS</b>								
<b>Chemical composition (weight%)</b>								
<b>Heat</b>	<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Cr</b>	<b>Ni</b>	<b>Mo</b>
548896	0.015	0.38	1.58	0.023	0.0008	20.25	24.84	4.20
	<b>Cu</b>	<b>N</b>						
548896	1.62	0.057						
<b>Chemical composition, product (weight%)</b>								
<b>Lot</b>	<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Cr</b>	<b>Ni</b>	<b>Mo</b>
47572	0.014	0.38	1.60	0.023	0.0008	20.22	24.93	4.20
	<b>Cu</b>	<b>N</b>						
47572	1.61	0.059						

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

**Tensile test at room temperature**

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
47572	Rp0.2	Rp1.0	Rm	A	4D
	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.

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.