

**CERTIFICATE**

A03/Z02

No. A/22-106035**Date**

2022-04-20

Rev**00****Page**

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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 761888 Customer order 2021-11-17 003-00991 ITEMS -W		Sandvik References A08 Order No. Subs No. SMT Dispatch note 578544 704545 12375/54 SMT No. C.Code 300-37851 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-213-19 PED 2014/68/EU EN 10216-5 TC1 NACE MR0175/ISO 15156-3:-2015																																																																								
EXTENT OF DELIVERY B07-B13 <table><thead><tr><th>It</th><th>Product designation</th><th>Heat</th><th>Lot</th><th>Pieces</th><th>Kg</th><th>M</th></tr></thead><tbody><tr><td>01</td><td>THT-2RK65-12.7-1.24 12.70 X 1.24</td><td>042699</td><td>95220</td><td>20</td><td>43.0</td><td>120.00</td></tr><tr><td colspan="4"></td><td>Total</td><td>20</td><td>43.0 120.00</td></tr></tbody></table> <table><thead><tr><th colspan="2">KEY TO HEAT</th><th colspan="2">KEY TO LOT</th></tr><tr><th>Heat Code</th><th>Heat No.</th><th>Lot Code</th><th>Lot No.</th></tr></thead><tbody><tr><td>042699</td><td>563448</td><td>95220</td><td>2051056-11</td></tr></tbody></table> TEST RESULTS Chemical composition (weight%) <table><thead><tr><th>Heat</th><th>C</th><th>Si</th><th>Mn</th><th>P</th><th>S</th><th>Cr</th><th>Ni</th><th>Mo</th></tr></thead><tbody><tr><td>042699</td><td>0.007</td><td>0.44</td><td>1.68</td><td>0.022</td><td><0.0005</td><td>20.21</td><td>24.95</td><td>4.20</td></tr><tr><td></td><th>Cu</th><th>N</th><td colspan="6"></td></tr><tr><td>042699</td><td>1.35</td><td>0.066</td><td colspan="6"></td></tr></tbody></table>				It	Product designation	Heat	Lot	Pieces	Kg	M	01	THT-2RK65-12.7-1.24 12.70 X 1.24	042699	95220	20	43.0	120.00					Total	20	43.0 120.00	KEY TO HEAT		KEY TO LOT		Heat Code	Heat No.	Lot Code	Lot No.	042699	563448	95220	2051056-11	Heat	C	Si	Mn	P	S	Cr	Ni	Mo	042699	0.007	0.44	1.68	0.022	<0.0005	20.21	24.95	4.20		Cu	N							042699	1.35	0.066						
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Quality assurance - Sofia Åkesson / Q-Manager A05/Z02 MTC Service / Certificates																																																																								

A01

AB SANDVIK MATERIALS TECHNOLOGY Reg No. 556234-6832 VAT No. SE556234683201
SE-81181 SANDVIKEN SWEDEN www.materials.sandvik mtc_service.smt@sandvik.com

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

Heat	C	Si	Mn	P	S	Cr	Ni	Mo
042699	0.011	0.43	1.69	0.023	<0.001	20.29	25.04	4.22
	Cu	N						
042699	1.36	0.063						

Tensile test at room temperature

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
	Rp0.2	Rp1.0	Rm	A	2"
95220	286	313	640	50	47
	283	311	632	50	47

Hardness test

Lot	Min	Max
	HRB	HRB
95220	75	75
	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/ASME A/SA213 A269 COLD EN 10216-5 TC1 AW UNS N08904 EN 1.45
39 CFA SML 12.70 X 1.24 MM 1/2" X 18 BWG/SWG HT 563448 SZ LOT 2051056-11 MADE
BY SANDVIK IN CZECHIA *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 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.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO C-3356/20

