



**CERTIFICATE**

**No. A/15-492088**

**Rev 00**

**Date 2015-04-10**

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INSPECTION CERTIFICATE acc to  
EN 10 204 3.1

Processkontroll Items AB  
Box 2088  
444 02 STORA HÖGA  
SWEDEN

INSPECTION STAMP  
QA-TUBE

<b>Customer References</b>		<b>Sandvik References</b>		
751732	Customer order 2015-04-10	Order No. 401859	Subs No. 589081	ABSMT Dispatch note 44787/54
003-00991	ITEMS	ABSMT No. 300-28373	C.Code 13	

<b>Material description</b> SEAMLESS STAINLESS COLD FINISHED INSTRUMENTATION TUBING	<b>Steel/material Designations</b> Sandvik UNS 2RK65 N08904
<b>Steel making process</b> Electric furnace	

<b>Technical requirements</b> ASTM A-269-13
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<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>		
02	THT-2RK65-12.7-1.24 12.70 X 1.24	541763	41316	10	21.0	60.00		
				<b>Total</b>	10	21.0	60.00	
<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>
541763	0.011	0.40	1.64	0.023	<0.0005	20.28	25.02	4.22
	<b>Cu</b>	<b>N</b>						
541763	1.40	0.050						
<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>
41316	0.015	0.41	1.59	0.024	0.001	20.24	25.00	4.23
	<b>Cu</b>	<b>N</b>						
41316	1.42	0.043						

**Quality assurance - Lars-Åke Bergqvist / QA-manager**  
**MTC Service / Certificates**



**Tensile test at room temperature**

	<b>Yield strength</b>	<b>Tensile strength</b>	<b>Elongation</b>
	<b>MPa</b>	<b>MPa</b>	<b>%</b>
<b>Lot</b>	<b>Rp0.2</b>	<b>Rm</b>	<b>2"</b>
41316	339	621	41
	339	621	54

**Hardness test**

	<b>Min</b>	<b>Max</b>
<b>Lot</b>	<b>HRB</b>	<b>HRB</b>
41316	74	74

**Following controls/tests have been satisfactorily performed:**

- Flaring test
- PMI-test.
- Leak test: Eddy current test acc to ASTM A-1016.
- Visual inspection and dimensional control.

**Heat Treatment:**

Solution annealed and quenched.

The raw material is free from radioactive contamination.

Material free from mercury contamination.

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 9001:2008.

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