



**CERTIFICATE**

**No. A/16-551130**

**Rev 00**

**Date 2016-01-20**

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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>		
752883	Customer order 2016-01-20	Order No. 429090	Subs No. 603385	ABSMT Dispatch note 13099/54
003-00991	ITEMS	ABSMT No. 300-40892	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-269-14
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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>		
01	THT-2RK65-6.35-0.89 6.35 X .89	542716	49300	17	12.0	102.00		
				<b>Total</b>	<b>17</b>	<b>12.0 102.00</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>
542716	0.007	0.42	1.74	0.023	<0.0005	20.22	25.01	4.20
	<b>Cu</b>	<b>N</b>						
542716	1.47	0.060						
<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>
49300	0.007	0.44	1.74	0.024	0.001	20.17	25.01	4.20
	<b>Cu</b>	<b>N</b>						
49300	1.47	0.059						

**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>4D</b>
49300	301	607	42
	305	612	42

**Hardness test**

	<b>Min</b>	<b>Max</b>
<b>Lot</b>	<b>HRB</b>	<b>HRB</b>
49300	75	77

**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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The certificate is produced with EDP and valid without signature.