



**CERTIFICATE**

**No. A/16-572528**

**Rev 00**

**Date 2016-04-19**

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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>		
753304	Customer order 2016-04-19	Order No. 438620	Subs No. 608665	ABSMT Dispatch note 19419/54
003-00991	ITEMS	ABSMT No. 300-45490	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-269-15A
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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	544245	54390	6	13.0	36.00		
				<b>Total</b>	<b>6</b>	<b>13.0</b>	<b>36.00</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>
544245	0.009	0.42	1.77	0.022	0.0005	20.19	24.96	4.22
	<b>Cu</b>	<b>N</b>						
544245	1.52	0.057						
<b>Chemical composition, product (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>
544245	0.011	0.42	1.76	0.022	<0.001	20.14	24.79	4.20
	<b>Cu</b>	<b>N</b>						
544245	1.51	0.064						

**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>
54390	300	608	42
	285	593	43

**Hardness test**

	<b>Min</b>	<b>Max</b>
<b>Lot</b>	<b>HRB</b>	<b>HRB</b>
54390	74	76

**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.