

**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

<b>Customer References</b> <span style="float: right;">A07</span> 764263/Bräck	<b>Alleima References</b> <span style="float: right;">A08</span> <table style="width: 100%;"> <tr> <td><b>Order No.</b></td> <td><b>Subs No.</b></td> <td><b>Dispatch note</b></td> </tr> <tr> <td>600359</td> <td>174443</td> <td>198355</td> </tr> <tr> <td><b>Suppl. No</b></td> <td><b>C.Code</b></td> <td></td> </tr> <tr> <td>174443</td> <td>16</td> <td></td> </tr> </table>	<b>Order No.</b>	<b>Subs No.</b>	<b>Dispatch note</b>	600359	174443	198355	<b>Suppl. No</b>	<b>C.Code</b>		174443	16																																																																																			
<b>Order No.</b>	<b>Subs No.</b>	<b>Dispatch note</b>																																																																																													
600359	174443	198355																																																																																													
<b>Suppl. No</b>	<b>C.Code</b>																																																																																														
174443	16																																																																																														
<b>Material description</b> <span style="float: right;">B01/B04</span> SEAMLESS STAINLESS COLD FINISHED INSTRUMENTATION TUBING   <table style="width: 100%;"> <tr> <td><b>Metallurgical process</b></td> <td><b>Origin</b></td> <td style="text-align: right;">C70</td> </tr> <tr> <td>Electric furnace</td> <td>Germany</td> <td></td> </tr> </table>	<b>Metallurgical process</b>	<b>Origin</b>	C70	Electric furnace	Germany		<b>Steel/material Designations</b> <span style="float: right;">B02</span> <table style="width: 100%;"> <tr> <td><b>Alleima</b></td> <td><b>UNS</b></td> </tr> <tr> <td>SANICRO 625</td> <td>N06625</td> </tr> </table>	<b>Alleima</b>	<b>UNS</b>	SANICRO 625	N06625																																																																																				
<b>Metallurgical process</b>	<b>Origin</b>	C70																																																																																													
Electric furnace	Germany																																																																																														
<b>Alleima</b>	<b>UNS</b>																																																																																														
SANICRO 625	N06625																																																																																														
<b>Technical requirements</b> <span style="float: right;">B03</span> ASTM B-444-18, ASME SB-444-ED-17, ASTM B-829 NACE MR0175/ISO 15156-3:-2015 GRADE 2																																																																																															
<table style="width: 100%;"> <tr> <td colspan="6"><b>EXTENT OF DELIVERY</b></td> <td style="text-align: right;">B07-B13</td> </tr> <tr> <td style="text-align: center;">It</td> <td style="text-align: center;">Product designation</td> <td style="text-align: center;">Heat</td> <td style="text-align: center;">Lot</td> <td style="text-align: center;">Kg</td> <td style="text-align: center;">M</td> <td></td> </tr> <tr> <td style="text-align: center;">01</td> <td>THT-SAN60-12.7-1.65 12.70 X 1.65</td> <td style="text-align: center;">049266</td> <td style="text-align: center;">96767</td> <td style="text-align: center;">11.0</td> <td style="text-align: center;">24.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">Total</td> <td style="text-align: center;">11.0</td> <td style="text-align: center;">24.00</td> <td></td> </tr> </table> <table style="width: 100%;"> <tr> <td colspan="2"><b>KEY TO HEAT</b></td> <td colspan="2"><b>KEY TO LOT</b></td> </tr> <tr> <td style="text-align: center;">Heat Code</td> <td style="text-align: center;">Heat No.</td> <td style="text-align: center;">Lot Code</td> <td style="text-align: center;">Lot No.</td> </tr> <tr> <td style="text-align: center;">049266</td> <td style="text-align: center;">049183</td> <td style="text-align: center;">96767</td> <td style="text-align: center;">0002076314</td> </tr> </table> <b>TEST RESULTS</b> <b>Chemical composition (weight%)</b> <table style="width: 100%;"> <tr> <td style="text-align: center;">Heat</td> <td style="text-align: center;">Nb+Ta</td> <td colspan="7"></td> </tr> <tr> <td style="text-align: center;">049266</td> <td style="text-align: center;">3.35</td> <td colspan="7"></td> </tr> </table> <table style="width: 100%;"> <tr> <td style="text-align: center;">Heat</td> <td style="text-align: center;">C</td> <td style="text-align: center;">Si</td> <td style="text-align: center;">Mn</td> <td style="text-align: center;">P</td> <td style="text-align: center;">S</td> <td style="text-align: center;">Cr</td> <td style="text-align: center;">Ni</td> <td style="text-align: center;">Mo</td> </tr> <tr> <td style="text-align: center;">049266</td> <td style="text-align: center;">0.014</td> <td style="text-align: center;">0.05</td> <td style="text-align: center;">0.07</td> <td style="text-align: center;">&lt;0.005</td> <td style="text-align: center;">&lt;0.0003</td> <td style="text-align: center;">21.49</td> <td style="text-align: center;">63.0</td> <td style="text-align: center;">8.23</td> </tr> <tr> <td></td> <td style="text-align: center;">Co</td> <td style="text-align: center;">Ti</td> <td style="text-align: center;">Al</td> <td style="text-align: center;">Fe</td> <td colspan="4"></td> </tr> <tr> <td style="text-align: center;">049266</td> <td style="text-align: center;">0.15</td> <td style="text-align: center;">0.07</td> <td style="text-align: center;">0.17</td> <td style="text-align: center;">3.33</td> <td colspan="4"></td> </tr> </table>		<b>EXTENT OF DELIVERY</b>						B07-B13	It	Product designation	Heat	Lot	Kg	M		01	THT-SAN60-12.7-1.65 12.70 X 1.65	049266	96767	11.0	24.00		Total				11.0	24.00		<b>KEY TO HEAT</b>		<b>KEY TO LOT</b>		Heat Code	Heat No.	Lot Code	Lot No.	049266	049183	96767	0002076314	Heat	Nb+Ta								049266	3.35								Heat	C	Si	Mn	P	S	Cr	Ni	Mo	049266	0.014	0.05	0.07	<0.005	<0.0003	21.49	63.0	8.23		Co	Ti	Al	Fe					049266	0.15	0.07	0.17	3.33				
<b>EXTENT OF DELIVERY</b>						B07-B13																																																																																									
It	Product designation	Heat	Lot	Kg	M																																																																																										
01	THT-SAN60-12.7-1.65 12.70 X 1.65	049266	96767	11.0	24.00																																																																																										
Total				11.0	24.00																																																																																										
<b>KEY TO HEAT</b>		<b>KEY TO LOT</b>																																																																																													
Heat Code	Heat No.	Lot Code	Lot No.																																																																																												
049266	049183	96767	0002076314																																																																																												
Heat	Nb+Ta																																																																																														
049266	3.35																																																																																														
Heat	C	Si	Mn	P	S	Cr	Ni	Mo																																																																																							
049266	0.014	0.05	0.07	<0.005	<0.0003	21.49	63.0	8.23																																																																																							
	Co	Ti	Al	Fe																																																																																											
049266	0.15	0.07	0.17	3.33																																																																																											
<b>Quality assurance - Sofia Åkesson / Q-Manager</b> MTC Service / Certificates						A05/Z02																																																																																									



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

535 ~ NB+TA

Heat	C	Si	Mn	P	S	Cr	Ni	Mo
049266	0.013	0.07	0.08	0.004	<0.0005	21.33	63.21	8.22
	Co	Ti	Al	Fe	535			
049266	0.16	0.057	0.22	3.30	3.293			

**Tensile test at room temperature**

	Yield strength	Tensile strength	Elongation
	Mpa	Mpa	%
Lot	Rp0.2	Rm	2"
96767	377	784	60
	372	774	61

**Hardness test**

Lot	HRB
96767	88
	87

**Corrosion test in delivery condition**

According to ASTM G-28A, for 120 hours.

**Specimen weight loss**

Lot	mm/y
96767	0.32

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

- Flattening test.
- Flaring test
- 100% PMI-test.
- Leak test: Eddy current test acc to ASTM B-829.
- Visual inspection and dimensional control.

**Heat Treatment:**

Solution annealed and quenched.

The raw material is free from radioactive contamination.

Material free from mercury contamination.

No welding or weld repair.

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 Alleima.

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.

**Alleima, formerly Sandvik Materials Technology. During a brand transition period, both Sandvik and Alleima marking on products may exist.**

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 0002076314

