

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

<p><b>Customer References</b> <span style="float: right;">A07</span></p> <p>762588</p> <p style="text-align: right;"><b>Customer order</b> 2022-05-05</p> <p>003-00991 ITEMS -W</p>	<p><b>Sandvik References</b> <span style="float: right;">A08</span></p> <table border="0"> <tr> <td><b>Order No.</b></td> <td><b>Subs No.</b></td> <td><b>SMT Dispatch note</b></td> </tr> <tr> <td>585753</td> <td>710603</td> <td>18956/54</td> </tr> <tr> <td><b>SMT No.</b></td> <td><b>C.Code</b></td> <td></td> </tr> <tr> <td>300-43522</td> <td>21</td> <td></td> </tr> </table>	<b>Order No.</b>	<b>Subs No.</b>	<b>SMT Dispatch note</b>	585753	710603	18956/54	<b>SMT No.</b>	<b>C.Code</b>		300-43522	21	
<b>Order No.</b>	<b>Subs No.</b>	<b>SMT Dispatch note</b>											
585753	710603	18956/54											
<b>SMT No.</b>	<b>C.Code</b>												
300-43522	21												

<p><b>Material description</b> <span style="float: right;">B01/B04</span></p> <p>SEAMLESS STAINLESS COLD FINISHED</p>  <p><b>Metallurgical process</b> <span style="float: right;">C70</span></p> <p>Electric furnace+AOD</p>	<p><b>Steel/material Designations</b> <span style="float: right;">B02</span></p> <table border="0"> <tr> <td><b>Sandvik</b></td> <td><b>UNS</b></td> </tr> <tr> <td>254 SMO</td> <td>S31254</td> </tr> <tr> <td><b>EN no</b></td> <td></td> </tr> <tr> <td>1.4547</td> <td></td> </tr> </table>	<b>Sandvik</b>	<b>UNS</b>	254 SMO	S31254	<b>EN no</b>		1.4547	
<b>Sandvik</b>	<b>UNS</b>								
254 SMO	S31254								
<b>EN no</b>									
1.4547									

<p><b>Technical requirements</b></p> <p>ASTM A-213-19 AW, ASME SA-213-ED-19 AW, ASTM A-269-15A NACE MR0175/ISO 15156-3:-2015, PED 2014/68/EU EN 10216-5 TC1 NORSOK M-630:2020, NORSOK MDS R18 REV.6 HRB MAX 90</p>	B03
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<b>EXTENT OF DELIVERY</b>							B07-B13	
<b>It</b>	<b>Product designation</b>	<b>Heat</b>	<b>Lot</b>	<b>Pieces</b>	<b>Kg</b>	<b>M</b>		
01	THT-254SMO-12.7-1.24 12.70 X 1.24	044165	95838	2	6.0	12.00		
				Total	2	6.0	12.00	
<b>KEY TO HEAT</b>				<b>KEY TO LOT</b>				
<b>Heat Code</b>	<b>Heat No.</b>			<b>Lot Code</b>	<b>Lot No.</b>			
044165	564049			95838	2064014-11			
<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>
044165	0.008	0.44	0.56	0.021	<0.0005	20.13	17.83	6.03
	<b>Cu</b>	<b>N</b>						
044165	0.55	0.196						

<p><b>Quality assurance - Sofia Åkesson / Q-Manager</b> MTC Service / Certificates</p>	A05/Z02
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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
044165	0.007	0.44	0.55	0.020	<0.001	20.13	17.80	6.01
	Cu	N						
044165	0.54	0.19						

**Tensile test at room temperature**

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
	Rp0.2	Rp1.0	Rm	A	2"
95838	341	373	723	47	49
	343	374	726	53	51

**Hardness test**

Lot	HRB
95838	83
	81

**Corrosion test according to ASTM G-48A, 50°C for 24 hours.**

In delivery condition.

No pitting corrosion found at 20x enlargement.

**Specimen weight loss**

Lot	g/m2
95838	0.10

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

- Flattening test.
- Flaring test
- 100% PMI-test.
- Leak test: Eddy current test acc to EN ISO 10893-1, ASME SA-1016.
- Visual inspection and dimensional control.

**Heat Treatment:**

Bright annealed at min 1150°C/0.25 minutes and quenched in water/forced gas.

**Marking:**

SANDVIK 254 SMO ASTM/ASME A/SA-213 ASTM A-269 COLD EN10216-5 TC1 AW UNS S31254  
EN 1.4547 CFA SML 12.70 X 1.24 MM 1/2'' X 18 BWG/SWG HT 564049 SZ LOT 2064014  
-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.

NORSOK M-650 QTR NO: QTR6Mo\_BA215

NORSOK M-650 QTR NO: QTR6Mo\_BA832

NORSOK M-650 QTR NO: 6Mo Tubes

NORSOK M-650 QTR NO: QTR/Type6Mo/R1000/2019 - Cold finished annealed rapidly cooled by protective gas.



NORSOK M-650 QTR NO: QTR/Type6Mo/R2000/2021 - Cold finished annealed rapidly cooled by protective gas.

NORSOK M-650 QTR NO: QTR/Type6Mo/INDUKCE/2022

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-4531/10

