



CERTIFICATE

A03/Z02

No. A/22-996244

Rev 00

Date

2022-02-17

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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

Customer References A07 762252 003-00991 ITEMS -W	Sandvik References A08 <table border="0"> <tr> <td>Order No.</td> <td>Subs No.</td> <td>SMT Dispatch note</td> </tr> <tr> <td>582423</td> <td>707787</td> <td>08058/54</td> </tr> <tr> <td>SMT No.</td> <td>C.Code</td> <td></td> </tr> <tr> <td>300-40921</td> <td>21</td> <td></td> </tr> </table>	Order No.	Subs No.	SMT Dispatch note	582423	707787	08058/54	SMT No.	C.Code		300-40921	21	
Order No.	Subs No.	SMT Dispatch note											
582423	707787	08058/54											
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300-40921	21												

Material description B01/B04 SEAMLESS STAINLESS COLD FINISHED Metallurgical process C70 Electric furnace+AOD	Steel/material Designations B02 <table border="0"> <tr> <td>Sandvik</td> <td>UNS</td> </tr> <tr> <td>254 SMO</td> <td>S31254</td> </tr> <tr> <td>EN no</td> <td></td> </tr> <tr> <td>1.4547</td> <td></td> </tr> </table>	Sandvik	UNS	254 SMO	S31254	EN no		1.4547	
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Technical requirements B03 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

EXTENT OF DELIVERY B07-B13						
It	Product designation	Heat	Lot	Pieces	Kg	M
01	THT-254SMO-12.7-1.24 12.70 X 1.24	049160	98268	1	2.0	6.00
				Total	1	2.0 6.00
KEY TO HEAT			KEY TO LOT			
Heat Code	Heat No.			Lot Code	Lot No.	
049160	551199			98268	0002023813	
TEST RESULTS						
Chemical composition (weight%)						
Heat	C	Si	Mn	P	S	Cr Ni Mo
049160	0.010	0.43	0.41	0.021	<0.0005	20.13 17.89 6.07
	Cu	N				
049160	0.53	0.204				

Quality assurance - Sofia Åkesson / Q-Manager MTC Service / Certificates	A05/Z02
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A01



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

Lot	C	Si	Mn	P	S	Cr	Ni	Mo
98268	0.010	0.45	0.41	0.022	<0.001	20.21	17.88	6.09
	Cu	N						
98268	0.53	0.21						

Tensile test at room temperature

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
	Rp0.2	Rp1.0	Rm	A	2"
98268	449	497	746	45	45

Hardness test

Lot	HRB
98268	85
	86

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/m ²
98268	0.11

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/0.5 minutes and quenched in water/forced gas.

Marking:

SANDVIK 254 SMO ASTM/ASME A/SA-213 ASTM A-269 COLD EN10216-5 TC1 UNS S31254 EN 1.4547 CFA SML NDE 12.70 X 1.24 MM 1/2'' X 18 BWG/SWG HT 551199 SG LOT 000202 3813 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

NORSOK M-650 QTR NO: QTR/Type6Mo/R2000/2021





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 0002023813

