



**CERTIFICATE**

**No. A/17-676642**

**Rev 00**

**Date 2017-08-10**

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INSPECTION CERTIFICATE acc to  
EN 10204 3.1

Processkontroll Items AB  
Box 2088  
444 02 STORA H@GA  
SWEDEN

INSPECTION STAMP  
QA-TUBE

<b>Customer References</b>		<b>Sandvik References</b>		
Martin	Customer order 2017-08-09	Order No. 487558	Subs No. 634783	ABSMT Dispatch note 01584/54
003-00991	ITEMS	ABSMT No. 300-67298	C.Code 64	

<b>Material description</b> SEAMLESS STAINLESS COLD FINISHED TUBE IN METRIC SIZES	<b>Steel/material Designations</b> Sandvik W.nr 3R60 1.4435 DIN EN no X 2 CRNIMO 18 14 3 1.4435
<b>Steel making process</b> Electric furnace	

<b>Technical requirements</b> DIN 17458 Testing class 1 PED 2014/68/EU EN 10216-5 TC1
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<b>EXTENT OF DELIVERY</b>								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	TST-3R60-21.3-2.65 21.30 X 2.65	545764	57561	1	8.0	6.59		
				Total	1	8.0	6.59	
Tolerances according to EN ISO 1127: D3/T3								
<b>TEST RESULTS</b>								
<b>Chemical composition (weight%)</b>								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
545764	0.017	0.38	1.52	0.034	0.010	17.27	13.06	2.62
	N							
545764	0.038							
<b>Tensile test at room temperature</b>								
	Yield strength		Tensile strength		Elongation			
	MPa	MPa	MPa		%			
Lot	Rp0.2	Rp1.0	Rm		A			
57561	304	336	595		51			

**Quality assurance - Lars-Åke Bergqvist / QA-manager**  
**MTC Service / Certificates**

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

- Flaring test
- PMI-test.
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.
- Leak test: Eddy current test acc to EN ISO 10893-1
- Visual inspection and dimensional control.

**Heat Treatment:**

Solution annealed and quenched.

**Marking:**

SANDVIK 3R60 EN 10216-5 TC1 EN 1.4435 CFD 21.30 X 2.65 MM HT 545764 SS LOT 575  
61 \*QA-TUBE\*

The raw material is free from radioactive contamination.

Material free from mercury contamination.

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 9001:2008.

No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of AB 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.