



CERTIFICATE

No. V/18-084689

Rev 00

Date 2018-02-05

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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

Customer References 755974	Sandvik References Order No. Subs No. Dispatch note 503981 162277 179803 Suppl. No C.Code 162277 58
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Material description SEAMLESS STAINLESS COLD FINISHED HYDRAULIC TUBING Steel making process Electric furnace	Steel/material Designations Sandvik EN no 5R75 1.4571
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Technical requirements PED 2014/68/EU EN 10216-5 TC1 NACE MR0175/ISO 15156-3:2015 HRB MAX 90
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EXTENT OF DELIVERY					
It	Product designation	Heat	Lot	Kg	M
01	THT-5R75-20-1.5 20.00 X 1.50	531388	38481	20.8	30.00
Total				20.8	30.00

TEST RESULTS									
Chemical composition (weight%)									
Heat	C	Si	Mn	P	S	Cr	Ni	Mo	
531388	0.029	0.46	1.21	0.025	0.005	16.74	12.14	2.03	
	Ti	N							
531388	0.33	0.013							

Tensile test at room temperature					
	Yield strength		Tensile strength		Elongation
	MPa	MPa	MPa		%
Lot	Rp0.2	Rp1.0	Rm		A
38481	293	327	573		56
	296	332	578		58

Quality assurance - Sofia Åkesson / Q-Manager
MTC Service / Certificates

**Hardness test**

	Min	Max
Lot	HRB	HRB
38481	73	77

Following controls/tests have been satisfactorily performed:

- Flattening test.
- 100% 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 5R75 EN 10216-5 TC1 SS 2350 EN 1.4571 M S PK1 20.00 X 1.50 MM HT 53138
8 SS LOS 38481 MADE BY SANDVIK IN SWEDEN *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.