



CERTIFICATE

No. A/15-483365

Rev 00

Date 2015-03-03

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INSPECTION CERTIFICATE acc to
EN 10 204 3.1

Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDEN

INSPECTION STAMP
QA-TUBE

Customer References		Sandvik References		
751544	Customer order 2015-02-20	Order No. 397017	Subs No. 586409	ABSMT Dispatch note 41862/54
003-00991	ITEMS	ABSMT No. 300-26132	C.Code 58	

Material description SEAMLESS STAINLESS COLD FINISHED HYDRAULIC TUBING	Steel/material Designations Sandvik EN no 5R75 1.4571
Steel making process Electric furnace	

Technical requirements PED 97/23/EC EN 10216-5 TC1 HRB MAX 90 SS 219713 Condition No -24

EXTENT OF DELIVERY									
It	Product designation	Heat	Lot	Pieces	Kg	M			
01	THT-5R75-16-2 16.00 X 2.00	047991	98884	42	174.0	252.00			
				Total	42	174.0	252.00		
KEY TO HEAT					KEY TO LOT				
Heat Code		Heat No.			Lot Code		Lot No.		
047991		536756			98884		176126		
TEST RESULTS									
Chemical composition (weight%)									
Heat	C	Si	Mn	P	S	Cr	Ni	Mo	
047991	0.034	0.36	1.14	0.024	0.010	16.84	12.52	2.04	
	Ti	N							
047991	0.35	0.013							
Tensile test at room temperature									
	Yield strength			Tensile strength		Elongation			
	MPa	MPa		MPa		%			
Lot	Rp0.2	Rp1.0		Rm		A			
98884	348	379		574		40			
	342	376		574		40			
	347	381		575		39			

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

**Hardness test**

	Min	Max
Lot	HRB	HRB
98884	80	81

Following controls/tests have been satisfactorily performed:

- Flattening test.
- PMI-test.
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.
- Leak test: Eddy current test acc to EN 10246-2
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

Marking:

SANDVIK 5R75 EN 10216-5 TC1 EN 10305-1 WNR 1.4571 EN 1.4571 M S PK1 16.00 X 2.00 MM HT 536756 SG LOS 176126 MADE BY SANDVIK *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 (97/23/EC) 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.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 43294