

**CERTIFICATE****No. V/17-071833****Rev 00****Date 2017-09-18****Page 1/2**INSPECTION CERTIFICATE acc to
EN 10204 3.1Processkontroll Items AB
Box 2088
444 02 STORA H@GA
SWEDENINSPECTION STAMP
QA-TUBE**Customer References**

755354

Sandvik ReferencesOrder No. Subs No. Dispatch note
491052 159432 175531
Suppl. No C.Code
159432 58**Material description**SEAMLESS STAINLESS COLD FINISHED
HYDRAULIC TUBING**Steel/material Designations**Sandvik EN no
5R75 1.4571**Steel making process**

Electric furnace

Technical requirementsPED 2014/68/EU EN 10216-5 TC1
NACE MR0175/ISO 15156-3:2015
HRB MAX 90**EXTENT OF DELIVERY**

It	Product designation	Heat	Lot	Kg	M
01	THT-5R75-20-2.5 20.00 X 2.50	547811	22232	328.6	300.00
Total				328.6	300.00

TEST RESULTS**Chemical composition (weight%)**

Heat	C	Si	Mn	P	S	Cr	Ni	Mo
547811	0.036	0.45	1.20	0.024	0.007	16.81	12.13	2.03
	Ti	N						
547811	0.37	0.011						

Tensile test at room temperature

Lot	Yield strength		Tensile strength	Elongation
	MPa	MPa	MPa	%
	Rp0.2	Rp1.0	Rm	A
22232	265	298	583	55
	268	304	583	57

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

**Hardness test**

	Min	Max
Lot	HRB	HRB
22232	74	76

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 5R75 EN10216-5 TC1 EN 1.4571 CFA 20.00 X 2.50 MM HT 547811 SS LOT 2223
2 MADE 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,
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The certificate is produced with EDP and valid without signature.