

**CERTIFICATE****No. A/13-362462****Rev 00****Date 2013-09-20****Page 1/2**INSPECTION CERTIFICATE acc to
EN 10 204 3.1Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDENINSPECTION STAMP
QA-TUBE**Customer References**

713098/HOLMGREN

Customer
order
2013-08-19

003-00991 ITEMS

Sandvik ReferencesOrder No. Subs No. ABSMT Dispatch note
341690 555713 06467/54
ABSMT No. C.Code
300-90503 46**Material description**SEAMLESS STAINLESS COLD FINISHED
HYDRAULIC TUBING**Steel making process**
Electric furnace**Steel/material Designations**Sandvik SS
3R60 2353**Technical requirements**SS 219713
Condition No -24**EXTENT OF DELIVERY**

It	Product designation	Heat	Lot	Pieces	Kg	M
01	THT-3R60-12-1.5 12.00 X 1.50	535996	17669	45	109.0	270.00
Total				45	109.0	270.00

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

Heat	C	Si	Mn	P	S	Cr	Ni	Mo
535996	0.021	0.39	1.60	0.029	0.007	17.35	13.11	2.53
N								
535996	0.035							

Tensile test at room temperature

Lot	Yield strength		Tensile strength	Elongation
	MPa	MPa	MPa	%
17669	Rp0.2	Rp1.0	Rm	A
	279	321	565	46

Following controls/tests have been satisfactorily performed:

- Flattening test.
- PMI-test.
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.

Quality assurance - Ulrik Rodling / QA-manager
MTC Service / Certificates



- Leak test: Eddy current test acc to SS 114301/114305 E1
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

The raw material is free from radioactive contamination.

Material free from mercury contamination.

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.

The certificate is produced with EDP and valid without signature.