

CERTIFICATE

No. A/13-366567 Rev 00

Date 2013-10-07 Page 1/2

INSPECTION CERTIFICATE acc to EN 10 204 3.1

Processkontroll Items AB Box 2088 444 02 STORA HÖGA

INSPECTION STAMP QA-TUBE

Customer References

Customer Order No. Subs No. ABSMT Dispatch note

SWEDEN

713275 customer

345889 558168 08360/54

2013-09-27

ABSMT No. C.Code 300-92671 46

003-00991 ITEMS

Material description | Steel/material Designations

SEAMLESS STAINLESS COLD FINISHED HYDRAULIC TUBING

Sandvik SS 3R60 2353

Steel making process

Electric furnace

Technical requirements

SS 219713

Condition No -24

EXTENT	OF	DELIVERY
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Ιt	Product designation	Heat	Lot	Pieces	Kg	M
01	THT-3R60-20-2.5	536055	16641	10	65.0	60.00
	20.00 X 2.50					

Total 10 65.0 60.00

TEST RESULTS

Chemical composition (weight%)

Heat C Si Mn Ρ S \mathtt{Cr} Νi Mo 0.028 0.009 536055 0.021 0.40 1.74 17.36 13.14 2.53

N

536055 0.033

Tensile test at room temperature

	Yield	strength	Tensile strength	Elongation	
	MPa	MPa	MPa	%	
Lot	Rp0.2	Rp1.0	Rm	A	
16641	269	311	583	52	
	273	313	584	48	

Following controls/tests have been satisfactorily performed:

- Ring expansion test
- PMI-test.

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

Date



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