



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		
711217	Customer order 2012-03-13	Order No.	Subs No.	ABSMT Dispatch note
		283500	522560	17381/54
		ABSMT No.	C.Code	
003-00991	ITEMS	300-62095	46	

Material description	Steel/material Designations
SEAMLESS STAINLESS COLD FINISHED HYDRAULIC TUBING	Sandvik SS 3R60 2353
<b>Steel making process</b> Electric furnace	

Technical requirements
SS 219713 Condition No -24

EXTENT OF DELIVERY						
It	Product designation	Heat	Lot	Pieces	Kg	M
02	THT-3R60-16-2 16.00 X 2.00	530784	38459	35	148.0	210.00
				Total	35	148.0 210.00

TEST RESULTS									
Chemical composition (weight%)									
Heat	C	Si	Mn	P	S	Cr	Ni	Mo	
530784	0.025	0.37	1.65	0.030	0.008	17.28	13.06	2.52	
	N								
530784	0.041								

Tensile test at room temperature					
Lot	Yield strength		Tensile strength		Elongation
	MPa	MPa	MPa		%
	Rp0.2	Rp1.0	Rm	A	
38459	281	317	567	56	
	279	315	565	58	
	282	322	570	57	

Following controls/tests have been satisfactorily performed:  
- Flattening test.

Quality assurance - Per Eriksson / QA-manager  
MTC Service / Certificates



- PMI-test.
- 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.

The certificate is produced with EDP and valid without signature.