

INSPECTION CERTIFICATE acc to Processkontroll Items AB EN 10 204 3.1

Box 2088 444 02 STORA HÖGA SWEDEN

INSPECTION STAMP QA-TUBE

Customer	r References		Sandvik References						
		Customer	Order No	. Subs	No. ABS	SMT Dispa	atch note		
712575		order	324734	54620	04 439	957/54			
		2013-03-1			de				
			300-8244	4 68					
003-0099	91 ITEMS								
	l description		Steel/ma	terial 1					
	S STAINLESS COLI) FINISHED	Sandvik			ISI	0.4 -		
PIPE			3R12		.1.1	P304/TP30	J4L		
			EN no 1.4306						
			1.4300						
Stool ma	aking process								
	c furnace								
Technica	al requirements								
	312-09, ASME SA-	312-ED-10 A	D-11A						
NACE MR(0175/ISO 15156-3	8:2009							
PED 97/2	23/EC EN 10216-5	5 TC1							
TOLERANO	CES ACC. ASTM A3	812							
	OF DELIVERY	_							
	Product design		eat Lot			aČ	M		
01	TST-3R12-1/2-SC	2H40 5	33554 49828	3 1	1	.0	6.00		
	21.34 X 2.77								
			Total	. 1	7	0	6.00		
TEST RES	פדוד.שפ		10041	- <u> </u>	1	. 0	0.00		
	l composition (v	reight%)							
Heat	C Si	Mn	P	S	Cr	Ni	N		
	0.010 0.35	1.19		0.007	18.35	10.10	0.049		
Chemical	l composition, p	roduct (wei	ght%)						
Heat	C Si	Mn	P	S	Cr	Ni	N		
533554	0.010 0.35	1.19	0.027	0.005	18.46	10.10	0.045		
Tensile	test at room te	emperature							
	Yield str	rength	Tensile st	rength	Elonga	ation			
	MPa MI		MPa		%	%			
Lot	Rp0.2 Rp		Rm		A	2"			
49828	323 36	6	624		52	56			
0112	lity aggurange -	. Dor Fribaa	on / OA_man	ager					
Quality assurance - Per Eriksson / QA-manager									

MTC Service / CertificatesAB SANDVIK MATERIALS TECHNOLOGY Reg No. 556234-6832 VAT No. SE663000-060901 SE-81181 SANDVIKEN SWEDEN www.smt.sandvik.com mtc_service.smt@sandvik.com



Hardness	test		
		Min	Max
Lot		HRB	HRB
49828		78	80

Following controls/tests have been satisfactorily performed:

- Flattening test.
- Ring expansion test
- PMI-test.
- Intergranular corrosion test acc to ASTM A-262 PR.E
- Leak test: Eddy current test acc to EN 10246-2 and ASTM Pr.E426
- with drilled hole as reference standard in lieu of hydrostatic test.
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

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.

The certificate is produced with EDP and valid without signature.