



INSPECTION CERTIFICATE acc to EN 10204 3.1

Processkontroll Items AB
Box 2088
444 02 STORA HÖGA
SWEDEN

INSPECTION STAMP
QA-TUBE

Customer References	Customer order 2018-11-14	Sandvik References	Order No. 526398 Subs No. 662077 ABSMT No. 300-88959 C.Code 05	ABSMT Dispatch note 33312/54
757155				
003-00991	ITEMS			

Material description	SEAMLESS STAINLESS COLD FINISHED INSTRUMENTATION TUBING	Steel/material Designations	Sandvik 2RK65 EN no 1.4539	UNS N08904
Steel making process	Electric furnace			

Technical requirements	ASTM A-269-15A, ASTM A-213-17 PED 2014/68/EU EN 10216-5 TC1 NACE MR0175/ISO 15156-3:2015
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EXTENT OF DELIVERY								
It	Product designation	Heat	Lot	Pieces	Kg	M		
01	THT-2RK65-12.7-1.24 12.70 X 1.24	048520	95686	10	22.0	60.00		
				Total	10	22.0 60.00		
KEY TO HEAT			KEY TO LOT					
Heat Code	Heat No.	Lot Code	Lot No.					
048520	547689	95686	0002000340					
TEST RESULTS								
Chemical composition (weight%)								
Heat	C	Si	Mn	P	S	Cr	Ni	Mo
048520	0.007	0.41	1.60	0.020	<0.0005	20.30	25.05	4.20
	Cu	N						
048520	1.38	0.058						

Quality assurance - Sofia Åkesson / Q-Manager
MTC Service / Certificates

**Chemical composition, product (weight%)**

Lot	C	Si	Mn	P	S	Cr	Ni	Mo
95686	0.011	0.41	1.58	0.021	<0.001	20.24	24.98	4.22
	Cu	N						
95686	1.37	0.056						

Tensile test at room temperature

Lot	Yield strength		Tensile strength	Elongation	
	MPa	MPa	MPa	%	%
	Rp0.2	Rp1.0	Rm	A	2"
95686	298	343	648	40	39
	332	369	643	39	37

Hardness test

Lot	Min	Max
	HRB	HRB
95686	79	79
	78	78

Following controls/tests have been satisfactorily performed:

- Flattening test.
- Flaring test
- 100% PMI-test.
- Intergranular corrosion test acc to ASTM A-262 PR.E
- Leak test: Eddy current test acc to ASTM A-1016.
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

Marking:

SANDVIK 2RK65 ASTM A213/A269 ASME SA213 COLD EN10216-5 TC1 EN10305-1 . EN 1.45
39 COLD SML NDE 12.70 X 1.24 MM 1/2'' X 18 BWG/SWG HT 547689 SG LOT 0002000340
MADE BY SANDVIK *QA-TUBE*

The raw material is free from radioactive contamination.

Material free from mercury contamination.

No welding or weld repair.

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 9001:2015.



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The certificate is produced with EDP and valid without signature.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 0002000340