

CERTIFICATE

Customer

2014-04-16

order

No. A/14-421694 Rev 00

Date 2014-05-22 Page 1/2

INSPECTION CERTIFICATE acc to EN 10 204 3.1

Processkontroll Items AB Box 2088

444 02 STORA HÖGA

SWEDEN

INSPECTION STAMP

Customer References

QA-TUBE

750374

Sandvik References

Order No. Subs No. ABSMT Dispatch note

367093 570177 24155/54

ABSMT No. C.Code 300-12482 13

003-00991 ITEMS

Material description

SEAMLESS STAINLESS COLD FINISHED

INSTRUMENTATION TUBING

Steel/material Designations

Sandvik UNS 2RK65 N08904

Steel making process

Electric furnace

Technical requirements

ASTM A-269-13

EXTENT OF DELIVERY					
It Product designation	Heat	Lot	Pieces	Kg	M
03 THT-2RK65-12.7-1.24	538737	28793	6	13.0	36.00
12.70 X 1.24					

Total 6 13.0 36.00

TEST RESULTS

Chemical composition (weight%)

Heat C Si Mn P S \mathtt{Cr} Νi Mo 538737 0.012 0.42 1.73 0.023 0.0005 20.23 25.10 4.27

Cu 538737 1.33 0.063

Chemical composition, product (weight%)

N

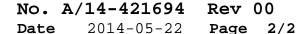
Mn Lot C Si P S \mathtt{Cr} Νi Mo 0.001 0.015 0.024 20.12 28793 0.42 1.69 25.09 4.30

> Cu N

28793 0.056 1.33

> Quality assurance - Lars-Ake Bergqvist / QA-manager MTC Service / Certificates





45

Tensile test at room temperature
Yield strength
MPa
MPa
Kp0.2
Rm
28793
Pm
45

608

Hardness test

 Min
 Max

 Lot
 HRB
 HRB

 28793
 77
 79

290

Following controls/tests have been satisfactorily performed:

- Flaring test
- PMI-test.
- Leak test: Eddy current test acc to ASTM A-1016.
- 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.

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The certificate is produced with EDP and valid without signature.