

CERTIFICATE

Customer

2016-05-02

order

No. A/16-576148

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Rev 00

INSPECTION CERTIFICATE acc to EN 10204 3.1

Processkontroll Items AB

Box 2088

444 02 STORA HÖGA

SWEDEN

INSPECTION STAMP

Customer References

QA-TUBE

753368

Sandvik References

Order No. Subs No. ABSMT Dispatch note

440061 609413 20284/54

ABSMT No. C.Code 300-46150 46

003-00991 ITEMS

Material description

SEAMLESS STAINLESS COLD FINISHED

INSTRUMENTATION TUBING

Steel/material Designations

Sandvik SS 3R60 2353

Steel making process

Electric furnace

Technical requirements

SS 219713

Condition No -24

EXTENT OF DELIVERY

It Product designation Heat Lot Pieces Kg M 01 THT-3R60-12.7-1.24 048225 54098

10 21.0 60.00 12.70 X 1.24

Total 10 21.0 60.00

KEY TO HEAT

Heat No. Heat Code 048225 543793

TEST RESULTS

Chemical composition (weight%)

Heat C Si Mn P \mathtt{Cr} Νi Mo S

0.030 0.0090 17.24 048225 0.016 0.38 1.55 13.11 2.52

N

048225 0.047

Tensile test at room temperature

Yield strength Tensile strength Elongation

MPa MPa MPa % Rp0.2 Rp1.0 RmLot. Α 54098 295 578 55 331

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

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Following controls/tests have been satisfactorily performed:

- Flattening test.
- 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 9001:2008.

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The certificate is produced with EDP and valid without signature.