

CERTIFICATE

No. A/10-999272 Rev 00

Date 2010-09-29 Page 1/2

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

Customer

order

2010-09-22

003-00991 ITEMS

709143

Sandvik References

Order No. Subs No. ABSMT Dispatch note

213500 185887 17242/54

ABSMT No. C.Code 300-29324 46

Material description

SEAMLESS STAINLESS COLD FINISHED

HYDRAULIC 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 24.0 60.00

01 THT-3R60-12-1.5 047464 94148 10 12.00 X 1.50

60

60.00

Total 10 24.0 KEY TO HEAT KEY TO LOT

Lot Code Lot No. Heat Code Heat No.

047464 523828 94148 4845852/1-1

TEST RESULTS

Chemical composition (weight%)

Heat C Si Mn \mathtt{Cr} Νi Mo P S

0.029 0.007 17.19 047464 0.016 0.43 1.67 13.03 2.52

N

047464 0.034

Tensile test at room temperature

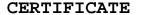
Yield strength Tensile strength Elongation

MPa MPa MPa % Rp0.2 Rp1.0 RmΑ Lot. 94148 247 279 554 60 256 275

Quality assurance - Per Eriksson/ QA-manager Tube & Pipe

MTC Service / Certificates

565



No. A/10-999272 Rev 00
Date 2010-09-29 Page 2/2



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 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.

TEST RESULTS TRANSFERRED FROM CERTIFICATE NO A100667