

CERTIFICATE

No. A/10-984310

Rev 00

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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

Sandvik References Order No. Subs No. ABSMT Dispatch note

Customer 708845 order

203505 178234 12276/54

2010-06-30

ABSMT No. C.Code 300-24927 46

003-00991 ITEMS

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 М 01 THT-3R60-16-2 047470 94213 50 207.0 300.00

16.00 X 2.00

Total 50 207.0 300.00

KEY TO HEAT KEY TO LOT

Lot Code Lot No. Heat Code Heat No.

047470 524214 94213 4846028/1-2

TEST RESULTS

Chemical composition (weight%)

Heat C Si Mn \mathtt{Cr} Νi Mo Ρ S

0.028 0.009 047470 0.019 0.40 1.70 17.22 13.06 2.52

N

047470 0.034

Tensile test at room temperature

Yield strength Tensile strength Elongation

MPa MPa MPa % Lot Rp0.2 RmΑ Rp1.0 94213 233 541 264 61 292 250 569 60 231 263 537 62

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

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 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 A100707