

## CERTIFICATE

No. A/16-552767

Rev 00

Date 2016-01-27 Page 1/2

INSPECTION CERTIFICATE acc to EN 10204 3.1

Processkontroll Items AB Box 2088 444 02 STORA HÖGA

SWEDEN

INSPECTION STAMP QA-TUBE

Customer References

Sandvik References Customer Order No. Subs No. ABSMT Dispatch note

752545 order 421569 599254 12315/54

2015-10-29

ABSMT No. C.Code 300-37508 46

003-00991 ITEMS

Material description Steel/material Designations SEAMLESS STAINLESS COLD FINISHED Sandvik SS

HYDRAULIC TUBING 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-3R60-20-2.5 543653 48993 50 323.0 300.00

20.00 X 2.50

Total 50 323.0 300.00

TEST RESULTS

Chemical composition (weight%)

C Si Mn P S CrΝi Mo 0.032 543653 0.019 0.42 1.59 0.007 17.27 13.19 2.62

N

543653 0.037

Tensile test at room temperature

Yield strength Tensile strength Elongation MPa MPa MPa

Lot Rp0.2 Rp1.0 RmΑ 48993 280 321 599 48 279 320 600 50

Following controls/tests have been satisfactorily performed:

- 100% Flattening test acc to EN ISO 8492.
- Flattening test.

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

Date 2016-01-27 Page 2/2



- 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.

No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of AB Sandvik Materials Technology. Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in Section 6 of EN 10204:2004. Contravention of this notice will be prosecuted to the fullest extent of applicable law.

The certificate is produced with EDP and valid without signature.