

## CERTIFICATE

No. V/21-031980

2021-11-18

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A02/703

INSPECTION CERTIFICATE acc to EN 10204 3.1

A06

Date

PROCESSKONTROLL ITEMS AB

BOX 2088

444 02 STORA HÖGA

SWEDEN

INSPECTION STAMP

QA-TUBE

Customer References A07

761888

Sandvik References

A08

B02

B03

Order No.

Subs No. Dispatch note 172161 194583

578544 172161

Suppl. No C.Code

172161 58

Material description

SEAMLESS STAINLESS COLD FINISHED

HYDRAULIC TUBING

Steel/material Designations

Sandvik EN no

5R75

1.4571

Metallurgical process

Electric furnace

Sweden

Origin C70

B01/B04

Technical requirements

PED 2014/68/EU EN 10216-5 TC1 NACE MR0175/ISO 15156-3:-2015

HRB MAX 90

EXTENT OF DELIVERY B07-B13

 It Product designation
 Heat Lot
 Kg
 M

 01 THT-5R75-18-2.5
 557075 17661
 11.6
 12.00

18.00 X 2.50

Total 11.6 12.00

TEST RESULTS

Chemical composition (weight%)

Heat C Si Μ'n P  $\mathtt{Cr}$ Νi S MΩ 557075 0.036 0.46 1.19 0.028 0.005 16.80 12.20 2.03

Ti N

557075 0.38 0.013

Tensile test at room temperature

Yield strength Tensile strength Elongation

MPa MPa MPa % Lot Rp0.2 Rp1.0 Rm Α 17661 570 57 252 284 252 284 567 54

> Quality assurance - Sofia Åkesson / Q-Manager MTC Service / Certificates

A05/Z02



Date



Hardness test

 Min
 Max

 Lot
 HRB
 HRB

 17661
 77
 79

## Following controls/tests have been satisfactorily performed:

- Flattening test.
- 100% PMI-test.
- Intergranular corrosion test acc. to EN ISO3651-2, Method A.
- Leak test: Eddy current test acc to EN ISO 10893-1
- Visual inspection and dimensional control.

## Heat Treatment:

Solution annealed and quenched.

## Marking:

SANDVIK 5R75 EN10216-5 TC1 EN 1.4571 CFA 18.00 X 2.50 MM HT 557075 SS LOT 1766 1 MADE IN SWEDEN \*QA-TUBE\*

The raw material is free from radioactive contamination.

Material free from mercury contamination.

No welding or weld repair.

Approved acc. AD 2000-Merkblatt W0 and certified acc. to Pressure Equipment Directive (2014/68/EU, Annex 1 para 4.3) by TUEV NORD; notified body, reg.no. 0045.

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 9001:2015.

No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of 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.

