

CERTIFICATE

A03/Z02 No. A/22-133783

2022-11-23

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A02/Z03

INSPECTION CERTIFICATE acc to EN 10204 3.1

BOX 2088

SWEDEN

Date

A06

591268

PROCESSKONTROLL ITEMS AB

444 02 STORA HÖGA

INSPECTION STAMP

QA-TUBE

Customer References A07

763149

Customer order

Alleima References Order No. Subs No. Dispatch note

A08

B02

2022-10-17

714958 24635/54

Suppl. No C.Code

300-47667 16

SANICRO 625

003-00991 ITEMS -W

B01/B04 Material description

SEAMLESS STAINLESS COLD FINISHED

INSTRUMENTATION TUBING

Steel/material Designations

Alleima UNS

Metallurgical process Electric furnace

Origin

Germany

B0.3

N06625

Technical requirements ASTM B-444-18, ASME SB-444-ED-17, ASTM B-829

NACE MR0175/ISO 15156-3:-2015

GRADE 2

B07-B13 EXTENT OF DELIVERY

It Product designation Pieces Κq M Heat Lot 09 THT-SAN60-12.7-1.24 049255 96762 14 32.0 84.00

C70

12.70 X 1.24

23685

Total 14 32.0 84.00

KEY TO HEAT KEY TO LOT

Lot Code Lot No. Heat Code Heat No. 049255 831006 96762 0002036725

TEST RESULTS

Chemical composition (weight%)

Nb+Ta Heat 049255 3.384

Si C Νi Heat Mn P S CrMo 049255 0.017 0.20 0.11 0.008 <0.0005 21.30 61.61 8.29

Co Τi \mathtt{Al} Fe 049255 0.055 0.11 0.17 4.62

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

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Chemical composition, product (weight%)

 $535 \sim NB+TA$

Heat C Si Mn Ρ S \mathtt{Cr} Νi Mo 049255 0.017 0.20 0.11 0.008 <0.0005 21.25 61.89 8.27

 Co
 Ti
 Al
 Fe
 535

 049255
 0.055
 0.11
 0.19
 4.56
 3.353

Tensile test at room temperature

	Yield strength Mpa	Tensile strength Mpa	Elongation %
Lot	Rp0.2	Rm	2"
96762	397	790	55
	394	779	55

Hardness test

Lot HRB 96762 78 78

Corrosion test in delivery condition

According to ASTM G-28A, for 120 hours.

Specimen weight loss

Lot mm/y 96762 0.35

Following controls/tests have been satisfactorily performed:

- Flattening test.
- Flaring test
- 100% PMI-test.
- Leak test: Eddy current test acc to ASTM B-829.
- Visual inspection and dimensional control.

Heat Treatment:

Solution annealed and quenched.

The raw material is free from radioactive contamination.

Material free from mercury contamination.

No welding or weld repair.

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.





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TEST RESULTS TRANSFERRED FROM CERTIFICATE NO 0002036725

