



CertificateNo
C-1507/20

1(5)

Date
2021-10-25

Customer Reference

Sandvik Reference

Customer Address

BOX 2088
PROCESSKONTROLL ITEMS AB
PROCESSKONTROLL ITEMS AB
444 02 STORA HÖGA
SWEDEN

Catalogue Code

THT-5R75-20-2.5

Lot

2029443-11

Heat

562248

Delivered Quantity

54 Metres

Customer Article No.

THT-5R75-20-2.5

Customer Order No.

172067

Order Number

761796

Customer Order Line

1

Pack Note No.

194422



INSPECTION CERTIFICATE

A03/Z02

C-1507/20 Rev. 00

Date : 2021-07-14 Page : 1 / 4

Type of inspection document : Inspection certificate acc. to EN 10204 / 3.1		A02	Internal order No. : 10010155 - 20	A08
Purchaser : SANDVIK DC VENLO B.V. AMUNDSENVEG 4 5928 LT VENLO THE NETHERLANDS		A06	Purchaser order No. : 800699 Project Id. : 4002543	A07
Product : Seamless cold finished tube	B01/B04	Steel designation : 5R75 / 5R75	B02	
Dimension (OD x WT) : 20,00 x 2,50AW mm	B09/B10	Melting process : AOD	C70	
Technical requirements : spec. 7-2-1261-REV.23+comment				B03
Supplementary information : Manufacturing of stainless steel tubes in grade 5R75 / 1.4571 from steel origin: AB Sandvik Materials Technology, Sweden. The qualified pre-material supplier is mentioned in the section "Extent of material delivery". Tube length: 6000 mm (-0/+5 mm)				B14
The products, covered by this certificate, comply with specification and requirements of the order.				Z01
Originator of the document : SCPT - QA		A05/Z02	Inspector's stamp:	Z03
				<small> Jihlava Pátová republika Pátová grolvina Pátová s.r.l. Czech Republic s.r.l. Czech Republic s.r.l. Czech Republic Tubes s.r.l. s.r.l. s.r.l. E-mail: patova@sandvik.com I am the author of this document 2021-07-14 12:21+02:00 </small>

Chemical composition (Heat analysis)

Heat	C [%]	Si [%]	Mn [%]	P [%]	S [%]
562248	max 0,080 0,034	max 1,000 0,410	max 2,000 1,090	max 0,040 0,025	max 0,015 0,007

Heat	Cr [%]	Ni [%]	Mo [%]	Ti [%]
562248	16,500-18,500 16,910	10,500-13,500 12,140	2,000-2,500 2,030	max 0,700 0,310

A01

SANDVIK CHOMUTOV Precision Tubes spol. s r.o., ID No. 60278773, VAT No. CZ60278773
V. Nezvala 5502, 430 01 Chomutov, Czech Republic, www.smt.sandvik.com



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Product check analysis

Heat	Lot	C [%]	Si [%]	Mn [%]	P [%]	S [%]
562248	2029443-11	max 0,080 0,040	max 1,000 0,420	max 2,000 1,100	max 0,040 0,023	max 0,015 0,004

Heat	Lot	Cr [%]	Ni [%]	Mo [%]	Ti [%]
562248	2029443-11	16,500-18,500 17,000	10,500-13,500 12,150	2,000-2,500 2,000	max 0,700 0,350

Extent of material delivery

Heat	Lot	Hollow supp.	No. of HTcycles ¹⁾	Pieces	Total length [m]	Total weight [kg] ²⁾
562248	2029443-11	SANDVIK SE	1	196	1 176.000	1 273.608

Note : ¹⁾ Number of heat treatment cycles performed on the tubes.

²⁾ Weight quantity is theoretically calculated, it might differ compared to shipping documents.

Chomutov, date : 14.7.2021



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Flaring test in acc. with EN ISO 10216-5

Heat	Lot	Test result [pass/fail]
562248	2029443-11	pass

Hardness test (HRB) in acc. with ASTM E18 / 7-2-1261

Heat	Lot	Hardness [HRB]
562248	2029443-11	75,000
562248	2029443-11	76,000

Intergranular corrosion testing in acc. with EN ISO 3651-2/A

Heat	Lot	Test result [pass/fail]
562248	2029443-11	pass

Longitudinal tensile test in acc. with EN ISO 6892-1

Heat	Lot	Rp0,2 [MPa]	Rm [MPa]	Amb.temper. [°C]	A5 [%]	Rp1,0 [MPa]
562248	2029443-11	277,600	589,900	25,000	53,100	307,400

Microstructure evaluation and Grain size WI190-012/ASTM E112

The structure is free from grain boundary chromium carbide precipitations:

Heat	Lot	G.B.Cr.Carbides [No/Yes]	Grain size [(G)]
562248	2029443-11	No	7,000

Dimensional check

Test results comply with specified criteria.

HT - Final heat treatment of straight tubes

All tubes have been bright annealed at a temperature of 1090°C.
Heat treatment records will be archived and available at SCPT.

A01

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Inside cleanliness check

Test results comply with specified criteria.

NDT - Eddy current flaw detection in acc. ASTM E426

Test results comply with specified criteria.

NDT - Visual inspection

Test results comply with specified criteria.

PMI - 100% positive material identification

Test results comply with specified criteria.

Statement

The raw material is free from radioactive contamination.

Statement

Material free from mercury and asbestos contamination.

Statement

The material have been manufactured within the scope of certified Quality Management System maintained in accordance with EN ISO 9001:2015.

Straightness check

Test results comply with specified criteria.