Salzgitter Mannesmann Stainless Tubes USA, Inc

(A05)

12050 West Little York - Houston, TX 77041 - USA

www.mannesmann-stainless-tubes.com



INSPECTION CERTIFICATE

(A02)

EN 10204: 2004 TYPE 3.1

(A03) No.

5-22-00131-rev.01

Pag.

1/5

(A06) Purchaser

SMST

CTS

CTS CTS

CTS

CTS

(A07) Customer Order No

Houston Stock Replenishment

(A08) SMST-Tubes Order No

0009101311

SMST-Item

(A09) Part No

0009101311-000001

(B01) (B02) (B04) Product Description

Seamless Stainless Steel Cold Finished Tubes Solution Annealed In Bright Condition Plain Ends Square Cut Deburred

Specifications ASME SA 213 19; ASTM A 213 19 a; ASTM A 269 15 > US units; SWAGELOK SMS-00333 REV. D

Grade TP 316;TP 316L;DMV 316L

Tolerances A 213 / A 1016 AW;ASTM A 269

(B03) Supplementary Requirements

None

(B06 - D01) Marking of the Product

Technical marking MANNESMANN MST-U A/SA-213 A-269 TP316/TP316L 0.250 X 0.049AW SML CF ET HT 350210

PHU50029491000 QL50018808 USA

Country of Origin of the tubes

USA

	Quantity						Dime	nsions	
(B07) Heat	Quality Lot	SMST-Item	(B08) Pieces	(B13) Weight	(B16) Length	(B09) OD	(B10) WT	,	11) d Length
								min	max
350210	QL50018808	000001	415	872.00 lbs	8300.00 ft	0.250 "	0.049 "	20.00 ft	20.01 ft

415 872.00 lbs 8300.00 ft

Heat Analysis

		Request	С	Si	Mn	Р	S	Cr	Ni	Мо
	Min		0.00	0.00	0.00	0.00	0.0050	16.0	10.0	2.0
	Max		0.035	1.0	2.0	0.045	0.0150	18.0	14.0	3.0
(B07) Heat	Heat Origin	(C70) Melting Process	%	%	%	%	%	%	%	%
350210	Germany	EAF + VOD	0.023	0.35	1.51	0.023	0.0080	16.8	11.3	2.1

Salzgitter Mannesmann Stainless Tubes USA, Inc

(A05) 12050 West Little York - Houston, TX 77041 - USA

www.mannesmann-stainless-tubes.com



INSPECTION CERTIFICATE

(A02)

EN 10204: 2004 TYPE 3.1

(A03) No. **5-22-00131-rev.01** Pag. 2 / 5

Product Analysis

ASTM A 213;ASME SA 213;ASTM A 269;ASTM A 480

	Request	С	Si	Mn	Р	S	Cr	Ni	Мо
	Min	0.00	0.00	0.00	0.00	0.0050	16.0	10.0	2.0
	Max	0.035	1.0	2.0	0.045	0.0150	18.0	14.0	3.0
Quality Lot	(C00) Sample	%	%	%	%	%	%	%	%
QL50018808	59022278	0.023	0.35	1.51	0.023	0.0080	16.8	11.3	2.1

Sampling done on tubes in manufacturing length

Tensile Test at Room Temperature

ASTM A 370;ASTM A 632

(C02) Direction: LONGITUDINAL

(C10) Description: FULL SIZE TEST SPECIMEN

		(C11)	(C12)	(C13)
		YS 0.2%	U.T.S.	EL
		Rp 0,2%	Rm	2"
Request	Min	30	75	35.0
	Max			
Quality Lot	(C00) Sample	ksi	ksi	%
QL50018808	59022278	41	95	43.5
QL30010000	59022279	41	95	43.5

Sampling done on tubes in manufacturing length

(C30) Hardness HRB

ASTM E 18

			(C30) HRB			
		Request			90.0 max	
Quality Lot	(C00) Sample	Result	(C31) Min	(C31) Max	(C32) Avg	
OL 50040000	59022280		67	68	67.5	
QL50018808	59022281		66	68	67.0	

Sampling done on tubes in manufacturing length

Salzgitter Mannesmann Stainless Tubes USA, Inc

(A05) 12050 West Little York - Houston, TX 77041 - USA

www.mannesmann-stainless-tubes.com



INSPECTION CERTIFICATE

(A02)

EN 10204: 2004 TYPE 3.1

(A03) No. 5-22-00131-rev.01 Pag. 3/5

(C51) Flaring Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018808	59022278	OK
	59022279	OK
	59027797	OK
	59027798	ОК

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018808	59022278	OK
	59022279	OK
	59027797	OK
	59027798	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

(C50) Flattening Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018808	59022278	ОК
	59022279	OK
	59027797	OK
	59027798	OK

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018808	59022278	ОК
	59022279	OK
	59027797	OK
	59027798	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

Salzgitter Mannesmann Stainless Tubes USA, Inc

(A05)

12050 West Little York - Houston, TX 77041 - USA

www.mannesmann-stainless-tubes.com



INSPECTION CERTIFICATE

EN 10204: 2004 TYPE 3.1 (A02)5-22-00131-rev.01 4/5 (A03) No. Pag. Other Tests and Declarations QL50018808 Heat Treatment Solution Annealed 1950 °F Gas Cooling (D01) Visual and dimensional inspection (VT) on 100% of tubes according to the order Satisfactory (D51) Antimixing Check (PMI) on 100% of tubes Satisfactory (D02) Eddy Current Testing (ET) on 100% of tubes ASTM A 1016 Satisfactory Intergranular Corrosion Test per ASTM A-262 PR.E Satisfactory No Weld Repair SMST declares that the product was manufactured, sampled, tested, inspected and packed in accordance with the specifications and any other (Z01) requirements designated in the purchase order within the extent listed in SMST order acknowledgment, and has been found to meet such requirements Tubes are free from mercury contamination and from radioactive contamination The material is conforming to directive 2000/53/EC and 2011/65/EU Confirmation with reference to Pressure Equipment Directive 2014/68/EU: The works operates a quality management system that has undergone a specific assessment for materials for pressure equipment and is certified by a competent body (ABS QE Cert. No. 42608)

(Z02) Mill's Inspector Noel Villatoro Date of Edition 03/03/2022

This certificate is issued by SALZGITTER MANNESMANN STAINLESS TUBES via a computerized system bearing a traceable unique number. It is valid without signature. An intermediary may only pass on the original certificate without any alterations. Providing a copy of the original is only permitted subject to strict compliance with the prerequisites set out in § 6 of EN 10204:2004 i.e. traceability and availability of the original upon request. Any modification or alteration of the certificate or any copies are strictly prohibited. Any contravention of this notice or § 6 of EN 10204:2004 is illegal and will be prosecuted. Any falsification of a certificate e.g. by introducing false or fraudulent data for the purpose of promoting the sales of goods is a criminal offence under German law (and many other jurisdictions) punishable with fines and imprisonment. If an authentification is needed, please contact info@mst.mannesmann.com

(A01) Salzgitter Mannesmann Stainless Tubes USA, Inc

12050 West Little York - Houston, TX 77041 - USA

www.mannesmann-stainless-tubes.com



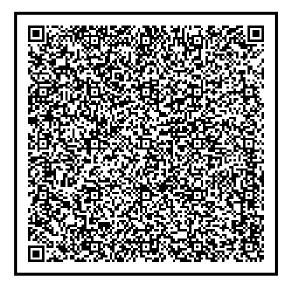
INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

(A05)

(A03) No. **5-22-00131-rev.01** Pag. 5 / 5

Certificate anti counterfeiting check



A set of information from the Inspection Certificate cover page are included in encrypted form in the above QR code. By scanning it with your mobile device you can check if the Inspection Certificate is genuine.