(A01) (A05)

Salzgitter Mannesmann Stainless Tubes USA, Inc

12050 West Little York - Houston, TX 77041 - USA

www.mannesmann-stainless-tubes.com



Pag.

1/5

INSPECTION CERTIFICATE

(A02)

EN 10204: 2004 TYPE 3.1

(A06) Purchaser
SMST
CTS
CTS CTS

(A07) Customer Order No

Houston Stock Replenishment

(A08) SMST-Tubes Order No

0009101311

(A03) No.

SMST-Item

(A09) Part No

5-22-00166-rev.01

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

CTS

CTS

(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

PHU50029490000 QL50018809 USA

Country of Origin of the tubes

USA

Γ		Quantity							Dimensions			
	(B07) Heat	Quality Lot	SMST-Item	SMST-Item (B08) (B13) Pieces Weight		(B16) Length	(B09) (B10) OD WT		(B11) Ordered Length			
									min	max		
Γ	350210	QL50018809	000001	337	707.00 lbs	6740.00 ft	0.250 "	0.049 "	20.00 ft	20.01 ft		

337	707.00 lbs	6740.00 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

(A01) (A05)

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

				_
(A03) No.	5-22-00166-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	%	%	%	%	%	%	%	%
QL50018809	59022283	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	%
01 500 40000	59022283	48	95	47.3
QL50018809	59022284	48	95	47.3

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
QL50018809	59022285		72	77	74.5
	59022286		72	77	74.5

Sampling done on tubes in manufacturing length

(A01)

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. **5-22-00166-rev.01** Pag. 3 / 5

(C51) Flaring Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
	59022283	ОК
QL50018809	59022284	ок
	59027796	ОК

ASTM A 1016

Quality Lot	(C00) Sample	Result
	59022283	ок
QL50018809	59022284	ОК
	59027796	ок

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
	59022283	OK
QL50018809	59022284	ОК
	59027796	ОК

ASTM A 1016

Quality Lot	(C00) Sample	Result
	59022283	ОК
QL50018809	59022284	OK
	59027796	ОК

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

(A01)

Salzgitter Mannesmann Stainless Tubes USA, Inc

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

www.mannesmann-stainless-tubes.com



INSPECTION CERTIFICATE

	(A02)	EN 10204: 2004 TYPE 3-1			
		(A03) No.	5-22-00166-rev.01	Pag.	4/5
ner Test	ts and Declarations				
	QL50018809				
	Heat Treatment Solution Anne	ealed 1950 °F		Gas (Cooling
(D01)	Visual and dimensional inspe	ection (VT) on 100% of tubes according to the o	der	Satis	factory
(D51)	Antimixing Check (PMI) on 10	00% of tubes		Satis	factory
(D02)	Eddy Current Testing (ET) on	100% of tubes ASTM A 1016		Satis	factory
	Intergranular Corrosion Test	per ASTM A-262 PR.E		Satis	factory
	No Weld Repair				
(Z01)	SMST declares that the produce requirements designated in the requirements	uct was manufactured, sampled, tested, inspec he purchase order within the extent listed in SM	ted and packed in accordance with the sp ST order acknowledgment, and has been	ecifications a found to med	nd any ot et such
	Tubes are free from mercury	contamination and from radioactive contaminat	ion		
	The material is conforming to	directive 2000/53/EC and 2011/65/EU			
	Confirmation with reference t The works operates a quality certified by a competent body	to Pressure Equipment Directive 2014/68/EU: r management system that has undergone a sp y (ABS QE Cert. No. 42608)	ecific assessment for materials for pressu	re equipment	and is
		Noel Villatoro	Date of Edition	03/22/2022	

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 he 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) (A05)

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

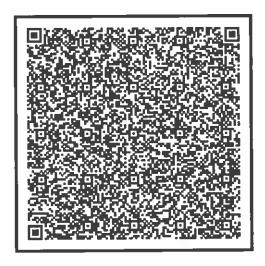
(A03) No.

5-22-00166-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.