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

> 5-21-00830-rev.01 1/5 (A03) No. Pag.

(A06) Purchaser

SMST CTS

CTS CTS

CTS

CTS

(A07) Customer Order No

Houston Stock Replenishment

(A08) SMST-Tubes Order No

0009101318

(A09) Part No SMST-Item

0009101318-000001

(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

MANNESMANN MST-U A/SA-213 A-269 TP316/TP316L .500 X .065AW SML CF ET HT 352140 **Technical marking**

PHU50029480000 QL50018790 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	١ ,	11) d Length	
								min	max	
352140	QL50018790	000001	334	2024.00 lbs	6680.00 ft	0.500 "	0.065 "	20.00 ft	20.01 ft	

334 2024.00 lbs 6680.00 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	%	%	%	%	%	%	%	%
352140	Germany	EAF + VOD	0.015	0.44	1.53	0.023	0.0080	17.0	11.3	2.2

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Product Analysis

ASME SA 213;ASTM A 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	%	%	%	%	%	%	%	%
QL50018790	59022099	0.015	0.44	1.53	0.023	0.0080	17.0	11.3	2.2

Sampling done on tubes in manufacturing length

Tensile Test at Room Temperature

ASTM A 370

(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	%
QL50018790	59022099	39	90	53.8
QL30016790	59022100	39	90	53.8

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 50049700	59022101		67	85	76.0
QL50018790	59022102		69	76	72.5

Sampling done on tubes in manufacturing length

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(C51) Flaring Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
	59022099	OK
QL50018790	59022100	OK
	59025229	ОК

ASTM A 1016

Quality Lot	(C00) Sample	Result
	59022099	ОК
QL50018790	59022100	OK
	59025229	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
QL50018790	59022099	ОК
	59022100	ОК
	59025229	ОК

ASTM A 1016

Quality Lot	(C00) Sample	Result
	59022099	OK
QL50018790	59022100	OK
	59025229	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

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EN 10204: 2004 TYPE 3.1 (A02)5-21-00830-rev.01 4/5 (A03) No. Pag. Other Tests and Declarations QL50018790 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 12/21/2021

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(A01) Salzgitter Mannesmann Stainless Tubes USA, Inc

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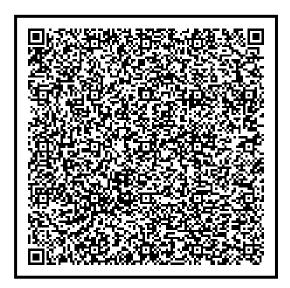
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