(A01) Salzgitt

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. **5-21-00810-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

0009101317

SMST-Item (A09) Part No

0009101317-000002

(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 .500 X .049AW SML CF ET HT 352140

PHU50029536000 QL50018748 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	
352140	QL50018748	000002	250	1180.00 lbs	5000.00 ft	0.500 "	0.049 "	20.00 ft	20.01 ft	

250 1180.00 lbs 5000.00 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

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

	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	%	%	%	%	%	%	%	%
QL50018748	59021618	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	%
QL50018748	59021618	35	84	56.8
QL30010740	59021619	35	84	56.0

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 50040740	59021620		68	75	71.5	
QL50018748	59021621		72	72	72.0	

Sampling done on tubes in manufacturing length

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(C51) Flaring Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018748	59021618	ОК
	59021619	ОК

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018748	59021618	ОК
	59021619	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
OL 50049749	59021618	OK
QL50018748	59021619	ОК

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50018748	59021618	OK
	59021619	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

(A01)

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		(A03) No.	5-21-00810-rev.01	Pag.	4/5				
her Tes	sts and Declarations								
	QL50018748								
	Heat Treatment Solution Annealed 1950	°F		Gas (Cooling				
(D01)	Visual and dimensional inspection (VT) o	on 100% of tubes according to the order		Satis	factory				
(D51)	Antimixing Check (PMI) on 100% of tuber	s		Satis	factory				
(D02)	Eddy Current Testing (ET) on 100% of tu	bes ASTM A 1016		Satis	factory				
	Intergranular Corrosion Test per ASTM A	A-262 Pr.E		Satis	factory				
	No Weld Repair								
(Z01)	SMST declares that the product was mar requirements designated in the purchase 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	12/16/2021					

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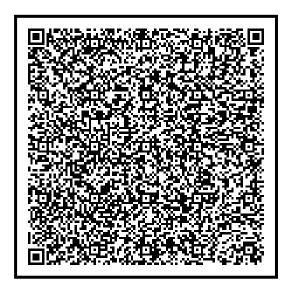
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