

INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

(A03) No. **5-22-00079-rev.01** Pag. 1 / 5

(A06) Purchaser
 GRANDE PRAIRIE FLUID SYSTEM TECHNOLOGIES INC
 118 COMMERCE DRIVE
 R3P 0Z6 WINNIPEG
 Manitoba
 Canada

(A07) Customer Order No
 8004952
(A08) SMST-Tubes Order No
 0000287773
SMST-Item (A09) **Part No**
 0000287773-000008 SS-T12-S-095-20

(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 SCS-00062 REV. B 03.2020 Solution annealed

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 TP 316/TP 316L .750 X .095AW SML CF ET HT 364170 PHU50028988000 QL50019216 287773-8 USA

Country of Origin of the tubes

USA

Quantity						Dimensions			
(B07) Heat	Quality Lot	SMST-Item	(B08) Pieces	(B13) Weight	(B16) Length	(B09) OD	(B10) WT	(B11) Ordered Length	
								min	max
364170	QL50019216	000008	108	1443.00 lbs	2160.00 ft	0.750 "	0.095 "	20.00 ft	20.01 ft

108 1443.00 lbs 2160.00 ft

Heat Analysis

(B07) Heat	Request	C	Si	Mn	P	S	Cr	Ni	Mo									
										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	%	%	%	%	%	%	%									
364170	Germany	EAF + VOD	0.019	0.43	1.62	0.027	0.0070	16.7	11.3	2.2								

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Product Analysis

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

	Request	C	Si	Mn	P	S	Cr	Ni	Mo
	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	%	%	%	%	%	%	%	%
QL50019216	59025438	0.019	0.43	1.62	0.027	0.0070	16.7	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	%
QL50019216	59025438	44	88	51.7
	59025513	44	88	51.7

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
QL50019216	59025439		76	72	74.0
	59025440		72	75	73.5

Sampling done on tubes in manufacturing length

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(C51) Flaring Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50019216	59025438	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
QL50019216	59025438	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

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Other Tests and Declarations

QL50019216

Heat Treatment Solution Annealed @ 1950 °F rapid gas cooling

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

Tubes in compliance with customer specification nr.

- SCS-00062 rev. B
- SQS-00012 rev. Y
- SQS-00020 rev. K
- SGS- 00008

No Weld Repair

(Z01) SMST declares that the product was manufactured, sampled, tested, inspected and packed in accordance with the specifications and any other 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

02/14/2022

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 authentication is needed, please contact info@mst.mannesmann.com

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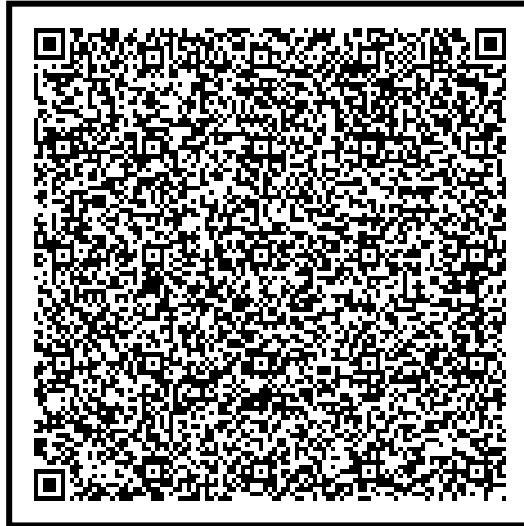
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Certificate anti counterfeiting check



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.