

**INSPECTION CERTIFICATE**

(A02) EN 10204: 2004 TYPE 3.1

(A03) No. **4-20-01059-rev.01** Pag. 1 / 5

<p>(A06) <b>Purchaser</b>          Salzgitter Mannesmann Stainless Tubes USA Inc.          12050 W. LITTLE YORK          77041 HOUSTON          Texas          USA</p>	<p>(A07) <b>Customer Order No</b>          STOCK REPLENISHMENT          (A08) <b>SMST-Tubes Order No</b>          0000279722  <b>SMST-Item</b> (A09) <b>Part No</b>          0000279722-000011 SS-T12-S-049-20D</p>
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(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 17;ASTM A 213 18 b;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-I - ASME SA 213 / ASTM A 213 / ASTM A 269 - DMV 316L - TP 316 / TP 316L - 3/4 " X 0,049 " - 19,05 MM X 1,24 MM - AW - SML - CF - NDE - HEAT \$HEAT\_NBR\$ - \$QUAL\_LOT\_NBR\$ - ITALY - BUNDLE \$BUNDLE\_NBR\$

**Country of Origin of the tubes**

Italy

			Quantity			Dimensions			
(B07) Heat	Quality Lot	SMST-Item	(B08) Pieces	(B13) Weight	(B16) Length	(B09) OD	(B10) WT	(B11) Ordered Length	
								min	max
QZ181	QL40063949	000011	150	500.00 kg	914.400 m	19.05 mm	1.24 mm	6096 mm	6099 mm
				1102.31 lbs	3000.00 ft	0.750 "	0.049 "	20.00 ft	20.01 ft
			<b>150</b>	<b>500.00 kg</b>	<b>914.400 m</b>				
			<b>150</b>	<b>1102.31 lbs</b>	<b>3000.00 ft</b>				

**Heat Analysis**

		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	%	%	%	%	%	%	%	%
QZ181	France	E + VOD	0.014	0.33	1.84	0.018	0.0070	16.7	11.0	2.1

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**Product Analysis**

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

	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	%	%	%	%	%	%	%	%
QL40063949	40543613	0.015	0,31	1,88	0,019	0,0080	16,6	11,0	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	%
QL40063949	40543613	42	88	53.5
	40543614	45	95	57.1

Sampling done on tubes in manufacturing length

**(C30) Hardness Test**

ASTM A 370

		(C30) HRB			
		Request			90.0 max
Quality Lot	(C00) Sample	Result	(C31) Min	(C31) Max	(C32) Avg
QL40063949	40543613		80.9	81.9	81.4
	40543614		80.0	81.5	80.8

Sampling done on tubes in manufacturing length

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**(C51) Flaring Test**

**ASTM A 1016**

Quality Lot	(C00) Sample	Result
QL40063949	40543613	OK
	40543614	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
QL40063949	40543611	OK
	40543612	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

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**Other Tests and Declarations**

QL40063949

Heat Treatment Solution Annealed 1100 °C/2012 °F Holding Time 1 Min / mm WT rapid 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

"Tubing are capable of passing corrosion test in accordance with EN ISO 3651-2 method A and ASTM A262 Practice E"  
SMTS USA is an authorized distributor of SMST Italy products

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 (TUV-Cert. No: 70/2002/MUC)

(Z02) Mill's Inspector **Ruggero Clementi (QC)** Date of Edition **29/05/2020**

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](mailto:info@mst.mannesmann.com)

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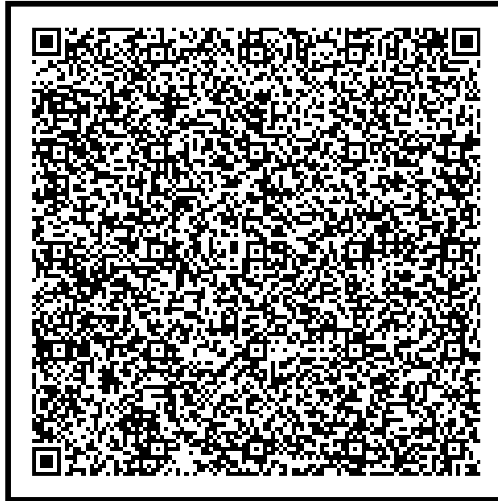
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**Certificate anti counterfeiting check**



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