

INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

(A03) No. **5-22-00498-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**
 8005276
 (A08) **SMST-Tubes Order No**
 0000288201
SMST-Item (A09) **Part No**
 0000288201-000013 SS-T24-S-134-20

(B01) (B02) (B04) Product Description

Seamless Stainless Steel Cold Finished Tubes Solution Annealed Free From Scale Plain Ends Square Cut Deburred

Specifications ASME SA 213 21;ASTM A 213 21 a;ASTM A 269 15 >US units;SWAGELOK SCS-00062 REV. C 03.2020 Solution annealed/ NACE MR0175/ ISO 15156
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 1.500 X .134AW SML CF ET HT RK703 QL(XXXX) PHU(XXXX) 288201-13 PN SS-T24-S-134-20 USA

Country of Origin of the tubes USA

(B07) Heat	Quality Lot	SMST-Item	Quantity			Dimensions			
			(B08) Pieces	(B13) Weight	(B16) Length	(B09) OD	(B10) WT	(B11) Ordered Length	
								min	max
RK703	QL50019506	000013	12	498.00 lbs	240.00 ft	1.500 "	0.134 "	20.00 ft	20.01 ft
	QL50019520	000013	11	432.00 lbs	220.00 ft	1.500 "	0.134 "	20.00 ft	20.01 ft
			23	930.00 lbs	460.00 ft				

Heat Analysis

(B07) Heat	Heat Origin	Request	C	Si	Mn	P	S	Cr	Ni	Mo	
											Min
											Max
RK703	France	E + VOD	0.017	0.32	1.73	0.017	0.0070	16.7	11.0	2.1	
											0.00
											0.035
		(C70) Melting Process	%	%	%	%	%	%	%	%	

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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	%	%	%	%	%	%	%	%
QL50019506	59027826	0.017	0.32	1.73	0.017	0.0070	16.7	11.0	2.1
QL50019520	59027884	0.017	0.32	1.73	0.017	0.0070	16.7	11.0	2.1

Sampling done on tubes in manufacturing length

Tensile Test at Room Temperature

ASTM A 370

(C02) Direction: LONGITUDINAL

(C10) Description: STRIP 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	%
QL50019506	59027826	52	100	65.6
QL50019520	59027884	37	85	64.0

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
QL50019506	59027827		76	77	76.5
	59027828		75	76	75.5
QL50019520	59027885		77	78	77.5
	59027886		77	78	77.5

Sampling done on tubes in manufacturing length

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(C51) Flaring Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50019506	59027826	OK
QL50019520	59027884	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
QL50019506	59027826	OK
QL50019520	59027884	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

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Other Tests and Declarations

QL50019506; QL50019520

	Heat Treatment Open Annealed 1950 °F	Water Quenched
(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

08/28/2022

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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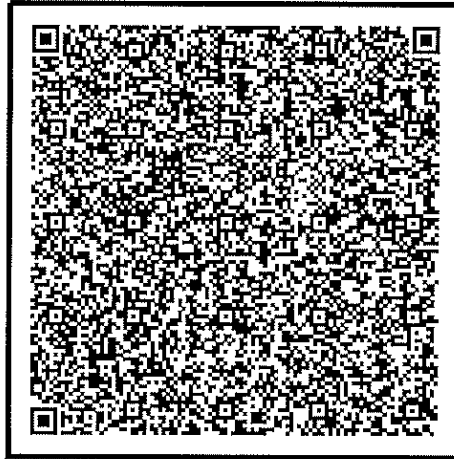
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Certificate anti counterfeiting check



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