

INSPECTION CERTIFICATE

(A02) EN 10204: 2004 TYPE 3.1

(A03) No. **5-22-00073-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**
 0000288201-000012 SS-T24-S-120-20

(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 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 1.500 X .120AW SML CF ET HT 367860 QL50019230 PHU50029739000 288201-12 PN SS-T24-S-120-20 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
367860	QL50019230	000012	29	1028.00 lbs	580.00 ft	1.500 "	0.120 "	20.00 ft	20.01 ft

29 1028.00 lbs 580.00 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	%	%	%	%	%	%	%									
367860	Germany	EAF + VOD	0.020	0.41	1.43	0.024	0.0070	16.8	11.3	2.1								

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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	%	%	%	%	%	%	%	%
QL50019230	59025528	0.018	0.41	1.44	0.029	0.0080	16.8	11.4	2.2

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	%
QL50019230	59025528	42	85	63.3

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
QL50019230	59025529		72	74	73.0
	59025530		72	74	73.0

Sampling done on tubes in manufacturing length

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(C51) Flaring Test

ASTM A 1016

Quality Lot	(C00) Sample	Result
QL50019230	59025528	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
QL50019230	59025528	OK

Sampling done on tubes in manufacturing length

Test done at both ends of tubes

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Other Tests and Declarations

QL50019230

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

02/09/2022

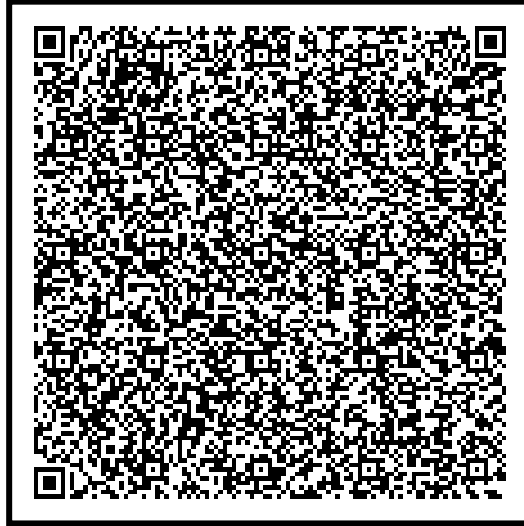
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Certificate anti counterfeiting check



**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.**