

Heat: 190952
Your PO: PO246768-1

Order: 3339781 Line: 5
Item: 1 1/4" XH 0.191" PIPE SMLS A106 GR B PE SRL GALV



Vallourec Soluções Tubulares do Brasil S.A.
Barreiro Plant - Av. Olinto Meireles, 65
ZIP 30640-010 - Belo Horizonte, MG



Inspection Certificate

(According to DIN EN 10204.3.1)

Nº.: 0050779708 / 04

Sheet: 1 / 3

Country: USA

Material Number: 280566

Work Order: 599705 / 40

Customer Order: 21009148 - 281359

Material Supply Authorization: 21009148 - 281359

Inspection: Vallourec Soluções Tubulares do Brasil S.A.

DESCRIPTION OF PRODUCTS: SEAMLESS STEEL PIPE, HOT FINISHED , PLAIN ENDS , NORMALIZED

DIMENSIONS: 1.660" X 0.191" **GRADE:** C # B # B

STANDARD: ASTM A 106 - 19 A ASTM A 530 - 18

IN ACCORDANCE ALSO TO THE STANDARDS: ASTM A 53 - 20 # ASME SA-106 - 19 ASME SA 530 - 19 # ASME SA-53 - 19

SURFACE PROTECTION: EXTERNAL: LACQUER **PIPE ENDS PROTECTOR:** PLASTIC CAP

TOLERANCES: OUTSIDE DIAMETER (PIPE BODY): -0.02 " / +0.02 " **WALL THICKNESS:** -0.02 " / +0.39 "

LENGTH: RANDOM 17.00 FT - 22.00 FT

STANDARD MARKING: Paint stenciled in the pipe body: MANUFACTURER ASTM/ASME A/SA-106 B C NDE SCH 080 1.660 X 0.191 HEAT NUMBER ASTM/ASME A/SA 53 B S SEQ \$SEQNUMBER\$ VSB LOGO

SHIPPING MARKING: TEXAS PIPE * P.O 281359 * VUSA 21009148 * HOUSTON * MADE IN BRAZIL 587495/40

Heat	Pieces
190949	511
190952	1047
950602	314
950603	139
950605	128
Total	2139

THE PRODUCT IS SATISFACTORY IN THE FOLLOWING TESTS / INSPECTIONS: DIMENSIONAL # VISUAL # BENDING TEST # EDDY-CURRENT TEST ACC. E309 : EDDY-CURRENT ACC. ASTM E 309 #

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Chemical Composition (%)

Process: Basic Oxygen Furnace, heats fully killed

CE1: Cr + Cu + Mo + Ni + V

		C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	CE1
Heat Analysis	Min		0.29			0.10						
	Max	0.230	1.20	0.035	0.0350		0.40	0.40	0.150	0.40	0.080	1.00
Product Analysis	Min		0.29			0.10						
	Max	0.230	1.20	0.035	0.0350		0.40	0.40	0.150	0.40	0.080	1.00
Heat	Control Lot											
190949	030003585425	0.179	1.07	0.012	0.0017	0.30	0.05	0.09	0.019	0.07	0.003	0.23
	Check 1	0.177	1.08	0.011	0.0015	0.29	0.05	0.09	0.021	0.08	0.004	0.26
	Check 2	0.170	1.07	0.011	0.0014	0.28	0.05	0.09	0.021	0.08	0.004	0.26
190952	030003576893	0.178	1.10	0.012	0.0024	0.32	0.05	0.11	0.021	0.10	0.003	0.28
	Check 1	0.180	1.10	0.011	0.0032	0.30	0.05	0.10	0.023	0.10	0.004	0.28
	Check 2	0.180	1.11	0.011	0.0028	0.30	0.05	0.10	0.024	0.09	0.005	0.27
950602	030003576895	0.178	1.10	0.012	0.0024	0.32	0.05	0.11	0.021	0.10	0.003	0.28
	Check 1	0.186	1.09	0.011	0.0041	0.29	0.06	0.11	0.037	0.10	0.004	0.31
	Check 2	0.187	1.09	0.010	0.0033	0.30	0.06	0.11	0.037	0.10	0.005	0.31
950603	030003576894	0.178	1.10	0.012	0.0024	0.30	0.05	0.10	0.021	0.10	0.005	0.28
	Check 1	0.190	1.10	0.011	0.0032	0.30	0.06	0.12	0.044	0.10	0.005	0.33
	Check 2	0.186	1.08	0.011	0.0032	0.28	0.06	0.12	0.044	0.10	0.004	0.33
950605	030003576892	0.174	1.06	0.011	0.0040	0.29	0.05	0.10	0.029	0.11	0.003	0.29
	Check 1	0.175	1.06	0.009	0.0039	0.27	0.05	0.10	0.031	0.10	0.004	0.30
	Check 2	0.183	1.07	0.009	0.0037	0.29	0.05	0.10	0.031	0.10	0.005	0.29

CE: Combined Elements;

Tensile Test

Specimen Direction: Longitudinal

Temperature: Room Temperature

Wall Thickness: 0.191"

Gauge Length: L0=2"

Method:Elong.Total Under Load 0.50 %

Heat	Control Lot	Type of Specimen	Area	YS	TS	E
			(Squin)	(PSI)	(PSI)	(%)
			Required: Min	40000	70000	23.0
			Max			
190949	030003585425	STRIP WIDTH 12.7 MM	0.1	59000	78800	35.0

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Tensile Test

Specimen Direction: Longitudinal
Method: Elong. Total Under Load 0.50 %

Temperature: Room Temperature

Wall Thickness: 0.191"

Gauge Length: L0=2"

Heat	Control Lot	Type of Specimen	Area (Sqin)	YS (PSI)	TS (PSI)	E (%)
				40000	70000	23.0
				Required: Min		
				Max		
190952	030003576893	STRIP WIDTH 12.7 MM	0.1	57100	80600	31.0
950602	030003576895	STRIP WIDTH 12.7 MM	0.1	55300	79500	31.0
950603	030003576894	STRIP WIDTH 12.7 MM	0.1	54500	77900	33.0
950605	030003576892	STRIP WIDTH 12.7 MM	0.1	52900	77200	30.0

YS-Yield Strength; TS-Tensile Strength; E-Elongation;

Remarks:

NORMALIZED
TEMPERATURE 900°C
SOAKING TIEM 12 MINUTES
METHOD OF COOLING : STILL IN AIR

-COUNTRY OF ORIGIN: BRAZIL

This certificate cancels and replaces the previous one 0050779708/03. The revision reason is: inclusion of country origin

We hereby certify that this product has been manufactured and examined in accordance with all requirements of the standards and specifications and all the results are found to be satisfactory. This testimonial and certificate respectively is recorded by a computer system and is valid without signature. Alteration or use for others products are regarded as falsification of documents and will be subject to criminal jurisdiction.

QUALITY CONTROL DEPARTMENT
FAX: (55-31) 2141- 5365
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CARLOS EDUARDO LIMA HORTA
TECHNICAL RESPONSIBLE

DATE
08.30.2023