

Heat: 194315
Your PO: P0241533

Order: 3086724 Line: 1
Item:



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.: 0050838477 / 00

Sheet:1 / 3

Customer: VALLOUREC USA CORPORATION c/o Vallourec North America SSC AP

Country: USA

Material Number: 413851

Work Order: 641386 / 30

Customer Order: 21009373 - 113181

Material Supply Authorization: 21009373 - 113181

Inspection: Vallourec Soluções Tubulares do Brasil S.A.

DESCRIPTION OF PRODUCTS: SEAMLESS STEEL PIPE COLD DRAWN , PLAIN ENDS , NORMALIZED

DIMENSIONS: 0.840" X 0.188" **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: OILED **PIPE ENDS PROTECTOR:** NO PROTECTOR

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

LENGTH: RANDOM 17.00 FT - 24.0 FT

STANDARD MARKING: Paint stenciled in the pipe body: MANUFACTURER ASTM/ASME A/SA-106 B C NDE SCH 160 0.840 X 0.188 HEAT NUMBER ASTM/ASME A/SA 53 B S VSB LOGO

SHIPPING MARKING: TEXAS PIPE * P.O 289775 * VUSA 21009373 * HOUSTON * MADE IN BRAZIL 596992/30

Heat	Pieces
193770	231
194315	229
Total	460

THE PRODUCT IS SATISFACTORY IN THE FOLLOWING TESTS / INSPECTIONS: DIMENSIONAL # VISUAL # BENDING TEST # EDDY CURRENT TEST : 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												
	193770 030003736372	0.173	1.08	0.010	0.0024	0.29	0.05	0.08	0.022	0.12	0.004	0.28
	194315 030003736373	0.183	1.07	0.011	0.0050	0.28	0.03	0.07	0.018	0.06	0.003	0.10

CE: Combined Elements;

Tensile Test

Specimen Direction: Longitudinal

Temperature: Room Temperature

Wall Thickness: 0.188"

Gauge Length: L0=2"

Method:Elong.Total Under Load 0.50 %

	Type of Specimen	Area (S _{qin})	YS (PSI)	TS (PSI)	E (%)	
			40000	70000	30.0	
			Required: Min			
			Max			
Heat Control Lot						
	193770 030003736372	FULL SECTION	0.4	52100	75400	47.0
	194315 030003736373	FULL SECTION	0.4	50200	78300	43.0

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

Hardness Test

Scale: HV

	Max
	Required: Min
	Max
Heat Control Lot	
	246.0
	170.0
	144.0

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Remarks:

MATERIAL IN ACCORDANCE WITH NACE MR 0175/ISO 15156-2, ANNEX A.2.1.2/NACE MR0103/ISO 17945-1 §13.1 ALL LATEST EDITIONS.

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) 3328-2987
e-mail:assistencia.autoind-bra@vallourec.com


MIRELLE OLIVEIRA SPINDOLA - CREA-MG 173749
TECHNICAL RESPONSIBLE

DATE
07.06.2022