

Bri-Steel Manufacturing Inc.

2125-64 Avenue, Edmonton, AB Canada T6P 1Z4

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number: BSM-0323

Product Size:

Mill Test Certificate

NPS 24 STD

Production Date:

May 10, 2012

Production Method: Hot Expansion

Product Heat Treatment: As-rolled

Product Standards: ASTM/ASME A/SA106-2011 Grade B/C, A/SA53-2010 Grade B Type S, NACE MR0175-2009

Product Markings: .BRI-STEEL MFG NPS 24 STD ASTM/ASME A/SA106 GR B/C A/SA53 GR B HEAT BSM-0323 (PIPE # LENGTH MASS) 94.62lb/ft NDE 740PSI NACE MR0175 2012/05 MADE IN CANADA.

BSM-0323	Heat		
Heat	Test Type		
24	NPS		P
STD	SCH		Product Detai
7	Pieces		ils
DRL	Length		
94.62	lb/ft	Mass	
S	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-Dest
Pass	ΥT	TU	estructive T
1111	ASTM E213	TU	esting
Pass	ASTM E309	ET	
Pass	740 psi/5s	HydroTest	
37.5° Bevel	Condition	End	

b						
0000	BSM-0323	неат				
	Неат	lest Type				
, p, vaca	Refining: Vacuum Degas	Blast Furnace; EAF; Ladle		Steelmaking Method		
77.0	0 22	0	90.			
0.52	0 93	Mn				
710.0	0.013	ס				
0.010	0.015	S				Chemical
77.0	0 22	Si				Ana
0.00	0 03	ひ			1	lysis (wt%)
0.10	0.10	5				
10.0	001	<u>≤</u>				
0.00	000	Z				
0.003	0000	<				
100.0	0 001	∄				
0.001	000	N _D				
0.0003	2000	В				
0.39	0,00	- 	ć	2		
0.40	2 3	(CSA)	(Ç		

	BSM	ī	ŝ	
	1-0323	Heat	ž	
	BSM-0323 Heat	Test Type		
	Ferrite & Pearlite	Microstructure		
	76	HRBW	Hardness	
	Pass	Flattening Test		Mechar
Longitudinal	Transverse	Flattening Test 50mm GL; 38mm x WT	Tension Test	Mechanical Properties
47,500	42,600	psi	Yield (Rt0.5)	
47,000	41,300	psi	Yield (Rp0.2)	
73,500	73,000	psi	Tensile (Rm)	
0.65	0.58	(Rt0.5/Rm)	Т/А	
42	39	%	Elongation (A)	

Additional Details:

results meet the corresponding requirements. Inc. in accordance with ASTM/ASME A/SA106-2011, A/SA53-2010 and the purchase order requirements, and that the 🗸 We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing

Service, and NACE MR0103-2010 Section 2.1.

✓ This pipe product meet the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour

 $\checkmark~$ This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1 \checkmark No weld repairs have been performed on this product. This product has no mercury contamination

Mill Test Certificate approved by:

Kenton Dechant, P.Eng.

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Manager of Quality and R&D