

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-0254

Product Size:

Mill Test Certificate

NPS 18 STD

Production Date: March 12, 2012

Product Standards:

Production Method:

Product Heat Treatment: As-rolled

Hot Expansion

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

Product Markings: .BRI-STEEL MFG NPS 18 STD ASTM/ASME A/SA106 GR B/C A/SA53 GR B HEAT BSM-0254 (PIPE # LENGTH MASS) NDE 1030PSI NACE MR0175 2012/03 MADE IN CANADA.

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	BSM-0254		неас				
	Heat		lest Type	1			
	18		NES	-			1
	STD		SCH	000			Product Detai
	18		Pieces				ils
	DRL		Length	200			
	70.59		lb/ft		MINIS	7000	
	^ 5		µR/hr		Geiger	0	
	<20		Gauss	3000	Kes.IVIag.		
	Pass		insp.		Visual		
	Pass		8				Non-D
	Pass		×				Destructive :
	-		ASTM F213			i	Testing
	Pass		3 ASTM F300		ET		
	Pass	a zooo pail oo	1030 nsi/5		HydroTest		
	37.5° Bevel	00.000	s Condition		End		

BSM-0254	2000	прац			
Heat		lest Type	1 1 1		
Refining; Vacuum Degas		Blast Furnace; EAF; Ladle	,	Steelmaking Method	
0.20		C			
0.87		S			
0.010		ס			
0.006		S			Chemica
0.22	I	S			l Analysis (wt%
0.03		Ċ.			(wt%)
0.09		5			
0.01			2000		
0.03		Z.	000000		
0.003		<			
0.001	:	∃ !			
0.002		25			
0.0001		æ			
0.36	(****/		(F F	
0.37	(100)	(050)	(7	

	ISB			Τ
	M-0254	Heat		
	BSM-0254 Heat	Test Type		
	Ferrite & Pearlite	Microstructure		
	76	HRBW	Hardness	
	Pass	Flattening Test		Mechan
Longitudinal	Transverse	50mm GL; 38mm x WT	Tension Test	Mechanical Properties
48,000	44,200	psi	Yield (Rt0.5)	
47,700	42,800	psi	Yield (Rp0.2)	
73,500	73,000	psi	Tensile (Rm)	
0.65	0.61	(Rt0.5/Rm)	٧/٢	
42	45	%	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. No weld repairs have been performed on this product. This product has no mercury contamination.

Mill Test Certificate approved by:

Manager of Quality and R&D Kenton Dechant, P.Eng.

2012 Marz 1