

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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Product: Seamless Carbon Steel Pipe

Product Heat Number:

BSM-0267

Product Size:

NPS 18 XS

March 22, 2012

Production Date:

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 18 XS ASTM/ASME A/SA106 GR B/C A/SA53 GR B HEAT BSM-0267 (PIPE # LENGTH MASS) NDE 1370PSI NACE MR0175 2012/03 MADE IN CANADA.

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	BSM-0267		Heat				
	Heat		Test Type			The state of the s	
	18		NPS				7
	XX		SCH				Product Details
	7		Pieces				IIS
	DRL		Length				
	93.45		lb/ft		Mass		
	Ś	7.7.1.	uR/hr	00.00	Geiger		
	<20	6 5 5 5 6	Gauss		Res Mag		
200	Pass		insn	* 1000	Visual		
100	Pass	00	3				Non-C
	Pass		T/W	2	=		Destructive :
		1101141	ASTM F213	_	===	,	Testing
	Pass	101141 2000	DOLL MESO	-	ĘŢ		
	Pass	Tara poll so	1370 nei/5e	TIPUTOTESC	HudroTes+		
	37.5° Bevel	Collation	Condition	רוכ	2		

BSM-0267	Heat		
Heat	Test Type		
Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
0.20	C		
0.89	Mn		
0.012	ъ		
0.007	S		Chemica
0.21	Si		Chemical Analysis (wt%)
0.05	수		(wt%)
0.07	5		
0.01	Mo		
0.03	Z.		
0.005	<		
0.001	Ti		
0.001	Nb		
0.0001	В		
0.37	(MII)	Œ	
0.37	(CSA)	Ж	

	BSM	Ī	ï	
	BSM-0267			
	Heat	Test Type	6	
	Ferrite & Pearlite	Microstructure		
	75	HRBW	Hardness	
	Pass	Flattening Test		Mechar
Longitudinal	Transverse	50mm GL; 38mm x WT	Tension Test	Mechanical Properties
45,100	44,100	psi	Yield (Rt0.5)	
45,000	43,300	psi	Yield (Rp0.2)	
72,000	71,500	psi	Tensile (Rm)	
0.63	0.62	(Rt0.5/Rm)	۲/۲	
45	41	%	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

🗸 No weld repairs have been performed on this product. This product has no mercury contamination.

 $\checkmark~$ This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1

Mill Test Certificate approved by:

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

2012 Apr 2