

Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number:

BSM-0269

Mill Test Certificate

Product Size: NPS 24 STD

Production Date: March 26, 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-0269 (PIPE # LENGTH MASS) 94.621b/ft NDE 740PSI NACE MR0175 2012/03 MADE IN CANADA.

	BSM-0269	Heat		
	Г	+		
	Heat	Test Type		
	24	NPS		٩
	STD	SCH		roduct Detai
	1	Pieces		S
	DRL	Length		
-	94.62	lb/ft	Mass	
	G	μR/hr	Geiger	
	<20	Gauss	Res.Mag.	
	Pass	Insp.	Visual	
	Pass	OD		Non-l
	Pass	WT	T	Destructive T
	-	ASTM E213	TU	Testing
	Pass	ASTM E309	ET	
	Pass	740 psi/5s	HydroTest	
	37.5° Bevel	Condition	End	

						Chemical	l Analysis	(wt%)									
		Steelmaking Method														æ	E
	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ľ													1	-
Heat	Test Type	Blast Furnace; EAF; Ladle	С	Mn	Ρ	S	Si	ς C	5	ŏ o	Z.	<	=!	В	8	() ()	(CSA)
BSM-0269	Heat	Refining; Vacuum Degas	0.20	0.89	0.010	0.012 0.22	0.22	0.03	0.13	0.02	0.04	0.004	0.001	0.002	0.0003	0.37	0.38

		BSM-0269 Heat	Heat		
		Heat	Test Type		
		Ferrite & Pearlite	Microstructure		
		80	HRBW	Hardness	
		Pass	Flattening Test		Mechar
Longitudinai		Transverse	50mm GL; 38mm x WT	Tension Test	Mechanical Properties
53,500	77 700	43,000	psi	Yield (Rt0.5)	
53,500	1000	42,500	psi	Yield (Rp0.2)	
//,500	111111111111111111111111111111111111111	76,000	psi	Tensile (Rm)	
0.69		0.57	(Rt0.5/Rm)	1/4	
38		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. No weld repairs have been performed on this product. This product has no mercury contamination

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

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 3