

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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Product: Seamless Carbon Steel Pipe

Product Heat Number: BSM-0124

Product Size:

NPS 16 STD

Production Date:

2011 Dec 01

Production Method: Hot Expansion

Product Heat Treatment: As-rolled

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

Product Markings: .BRI-STEEL MFG NPS 16 STD ASTM/ASME A/SA106 GR B/C A/SA53 GR B HEAT BSM-0124 (PIPE # LENGTH MASS) NDE 1140PSI NACE MR0175 2011/11 MADE IN CANADA.

В			Т
BSM-0124	Heat		
Heat	Test Type		
16	NPS		P
STD	SCH		Product Detai
1	Pieces		ls
DRL	Length		
62.58	lb/ft	Mass	
<5	μR/hr	Geiger	
 <20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-D
Pass	TW	딬	Destructive -
	ASTM E213	TU	Testing
Pass	ASTM E309	ΕT	
Pass	1140 psi/5s	HydroTest	
37.5° Bevel	Condition	End	

	Т	_	
BSM-0124	Heat		
Heat	Test Type	-	
Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
0.20	С		
0.85	Mn	-200	
0.012	P		
0.012	S		Chemica
0.23	Si		l Analysis (wt%
0.05	Ç		(wt%)
0.10	Cu		
0.03	Mo		
0.05	Z.		
0.003	<		
0.001	#		
0.001	Nb		
0.0003	В		
0.36	(IIW)	CE	

		m			Г
		BSM-0124 Heat	Heat		
		Heat	Test Type		
		Ferrite & Pearlite	Microstructure		
		78	HRBW	Hardness	
		Pass	Flattening Test		Mechan
Control of the contro	Longitudinal	Transverse	50mm GL; 38mm x WT	Tension Test	Mechanical Properties
	47,800	47,600	psi	Yield (Rt0.5)	
	47,400	46,700	psi	Yield (Rp0.2)	
	75,000	75,500	psi	Tensile (Rm)	
	0.64	0.63	(Rt0.5/Rm)	T/Y	
	42	39	%	Elongation (A)	

Additional Details:

results meet the corresponding requirements. Inc. in accordance with ASTM/ASME A/SA106-2010, 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

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

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

Service, and NACE MR0103-2010 Section 2.1.

✓ This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1.

Mill Test Certificate approved by:

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

2012 Feb 3