

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number:

Production Method: Hot Expansion

BSM-0316

Product Size:

NPS 24 STD

Production Date: May 7, 2012

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-0316 (PIPE # LENGTH MASS) 94.621b/ft NDE 740PSI NACE MR0175 2012/05 MADE IN CANADA.

BSI			
BSM-0316	Heat		
Heat	Test Type		
24	NPS		P
STD	SCH		Product Detail
ы	Pieces		ls
DRL	Length		
94.62	lb/ft	Mass	
Ġ	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-E
Pass	WT	TU	Destructive T
	ASTM E213	TU	esting
Pass	ASTM E309	ET	
Pass	740 psi/5s	HydroTest	
37.5° Bevel	Condition	End	

BSM-0316	Heat		
Heat	Test Type		
Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
0.20	C		
0.90	Mn		
0.015	P		
0.008	S		Chemical
0.27	Si		Analysis (wt%)
0.03	숙		(wt%)
0.12	Cu		
0.03	Mo		
0.04	Z.		
0.003	<		
0.001	Ti		
0.001	Nb		
0.0001	В		
0.37	(WII)	CE	
0.38	(CSA)	CE	

	BSM-0316 Heat	Heat		
	Heat	Heat Test Type		
	Ferrite & Pearlite	Microstructure		
	78	HRBW	Hardness	
	Pass	Flattening Test		Mechan
Longitudinal	Transverse	50mm GL; 38mm x WT	Tension Test	Mechanical Properties
47,800	42,100	psi	Yield (Rt0.5)	
47,900	40,900	psi	Yield (Rp0.2)	
75,500	75,000	psi	Tensile (Rm)	
0.63	0.56	(Rt0.5/Rm)	Υ/Τ	
42	43	%	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 No weld repairs have been performed on this product. This product has no mercury contamination.

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

Mill Test Certificate approved by:

2012 May 15

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