

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number: BSM-0336

Product Size:

NPS 24 XS

Production Date: May 21, 2012

Production Method: Hot Expansion

Product Heat Treatment: As-rolled

Product Standards: ASTM/ASME A/SA106-2011 Grade B/C, A/SA53-2012 Grade B Type S, NACE MR0175-2009

Product Markings:

BSM-0336

Heat

24

X

DRL

125.50

3

<20

Pass

Pass

Pass

Pass

Pass

37.5° Bevel

_			
	Heat		
	Test Type		
	NPS		P
1	SCH		roduct Detail
	Pieces		ls
The second secon	Length		
	lb/ft	Mass	
	μR/hr	Geiger	
	Gauss	Res.Mag.	
	Insp.	Visual	
	OD		Non-D
	ΥT	TU	estructive T
	ASTM E213	TU	esting
	ASTM E309	ET	
	970 psi/5s	HydroTest	
	Condition	End	

.BRI-STEEL MFG NPS 24 XS ASTM/ASME A/SA106 GR B/C A/SA53 GR B HEAT BSM-0336 (PIPE # LENGTH MASS) 125.5ib/ft NDE 970PSI NACE MR0175 2012/05 MADE IN CANADA.

BSM-0336	Heat		
Heat	Test Type		
Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
0.21	С		
0.87	Mn		
0.009	P		
0.010	S		Chemical A
0.23	Si		nalys
0.03	Cr		is (wt%)
0.09	Cu		
0.01	Mo		
0.04	N.		
0.003	٧		
0.001	ı		
0.001	Nb		
0.0003	В		
0.37	(WII)	CE	
0.38	(CSA)	Œ	

	BSM-0336 Heat	Heat		
	Heat	Test Type		
	Ferrite & Pearlite	Microstructure		
	74	HRBW	Hardness	
	Pass	Flattening Test		Mechar
Longitudinal	Transverse	Flattening Test 50mm GL; 38mm x WT	Tension Test	Mechanical Properties
42,800	41,600	psi	Yield (Rt0.5)	
43,000	40,400	psi	Yield (Rp0.2)	
70,500	71,500	psi	Tensile (Rm)	
0.61	0.58	(Rt0.5/Rm)	1/4	
49	47	%	Elongation (A)	

Additional Details:

Inc. in accordance with ASTM/ASME A/SA106-2011, A/SA53-2012 and the purchase order requirements, and that the results meet the corresponding requirements. 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

 \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 May 29