

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Production Method:

Product Heat Number: BSM-0270

Product Size:

NPS 24 STD

Production Date: March 26, 2012

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-0270 (PIPE # LENGTH MASS) 94.621b/ft NDE 740PSI NACE MR0175 2012/03 MADE IN CANADA.

BSM-0270	Heat		
) Heat	Test Type	31	
24	NPS		
STD	SCH		Product Detail
8	Pieces		ils
DRL	Length		
94.62	lb/ft	Mass	
%	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-E
Pass	WT	TU	Destructive 1
	ASTM E213	TU	esting
Pass	ASTM E309	ET	
Pass	740 psi/5s	HydroTest	
37.5° Bevel	Condition	End	

BSM-0270	Heat		
Heat	Test Type		
Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
0.21	С		
0.90	Μ'n		
0.010	P		
0.012	S		Chemica
0.22	Si		l Analysis
0.03	Cr		(wt%)
0.11	Cu		
0.02	Mo		
0.03	N.		
0.004	٧		
0.001	Ti		
0.001	Nb		
0.0002	В		
0.38	(WII)	CE	
0.39	(CSA)	Œ	

	BSM-0270	Heat		
	BSM-0270 Heat	Test Type		
	Ferrite & Pearlite	Microstructure		
	77	HRBW	Hardness	
	Pass	Flattening Test		Mechar
Longitudinal	Transverse	50mm GL; 38mm x WT	Tension Test	Mechanical Properties
49,600	44,800	psi	Yield (Rt0.5)	
50,000	43,500	psi	Yield (Rp0.2)	
74,000	74,000	psi	Tensile (Rm)	
0.67	0.61	(Rt0.5/Rm)	۲/۲	
42	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 $\checkmark~$ 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

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.