

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Standards:

Production Method:

Product Heat Number:

BSM-0228

Product Size:

NPS 24 STD

Production Date:

February 27, 2012

Product Heat Treatment: As-rolled

Hot Expansion

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-0228 (PIPE # LENGTH MASS) NDE 740PSI NACE MR0175 2012/02 MADE IN CANADA.

BSM-0228	Heat	•	
Heat	1		
24	NPS		,
STD	SCH	86	Product Detai
2	Pieces		iis
DRL	Length		
94.62	lb/ft	Mass	
%	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-I
Pass	WT	TU	Destructive
	ASTM E213	TU	Testing
Pass	ASTM E309	ET	
Pass	740 psi/5s	HydroTest	
 37.5° Bevel	Condition	End	

BSM-0228		пеас				
Heat		lest Type	1			
Refining; Vacuum Degas		Blast Furnace; EAF; Ladle		Precindant Sinethon	Stoolmaking Mathad	
0.21		C	,			
0.89		S				
0.011		70				
0.006		S				Chemica
0.28		S				l Analysis (
0.03		Ç				(wt%)
0.11		5				
0.03		<u> </u>			-	
0.04		z				
0.003		<				
0.001		;				
0.002		2				
0.0002	,	00				
0.38	(***)			CE CE		
0.39	(00)	(050)	-	7		

45,100 43,900 76,000 0.59	0 43,900	0	100	45,	Transverse	Pass	79	Ferrite & Pearlite	Heat	BSM-0228
osi psi psi (Rt0.5/Rm	osi psi psi)si psi)Si		50mm GL; 38mm x WT	Flattening Test	HRBW	Microstructure	Test Type	Heat
d (Rt0.5) Yield (Rp0.2) Tensile (Rm) Y/T	(Rt0.5) Yield (Rp0.2) T	(Rt0.5) Yield (R	R	Yield	Tension Test	3	Hardness			
					Mechanical Properties	Mechan				

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

 $\checkmark~$ This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1. \checkmark No weld repairs have been performed on this product. This product has no mercury contamination

Mill Test Certificate approved by:

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

2012 Mar 7