

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number:

BSM-0222

Product Size:

NPS 24 STD

Production Date:

February 22, 2012

Production Method: 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-0222 (PIPE # LENGTH MASS) NDE 740PSI NACE MR0175 2012/02 MADE IN CANADA.

BSM-0222	20000	пеат			
Heat		lest Type	1		
24	1	NPS	-		-
STD		SCH)		Product Detail
1		Pieces			ils
DRL		Length			
94.62		lb/ft	:	Mass	
G		µR/hr		Geiger	
<20		Gauss		Res.Mag.	
Pass	-	insp.		Visual	
Pass		9			Non-I
Pass		×		_	Destructive :
1		ASTM E213			Testing
Pass		ASTM F309	1	4	
Pass		740 nsi/5s		HvdroTest	
37.5° Bevel	000000000000000000000000000000000000000	Condition	1	Fnd	

BSM-0222		⊓edt		100		
Heat		Test Type	7 7			
Refining; Vacuum Degas		Blast Furnace; EAF; Ladle	7	organiakiiig Merilon	Stockmaking Mathed	
0.21		<u></u>				
0.90		Mη				
0.011		7				
0.012		S				Chemical
0.25		S				Analysis (wt%)
0.03		ڻ ح				(wt%)
0.13		5				
0.02		<u>S</u>				
0.04		Z				
0.003	97.50	<				
0.001						
0.002		Z				
0.0002	,	,				
0.38	(1144)		(7		
0.39		(050)	(7		

				A STATE OF THE PERSON NAMED IN COLUMN TO STATE OF THE PER	The same of the sa					
	0.61	81,000	48,000	49,500	Transverse	Pass	81	Ferrite & Pearlite	Heat	BSM-0222
-	(Rt0.5/Rm	psi	psi	psi	50mm GL; 38mm x WT	Flattening Test	HRBW	Microstructure	lest lype	Heat
	1/4	Tensile (Rm)	Yield (Rp0.2)	Yield (Rt0.5)	Tension Test		Hardness	N	! !	:
					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

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:

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

2012 Mar 23