

## Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number: BSM-0038

Mill Test Certificate

Production Date:

Production Method: Hot Expansion

Product Heat Treatment: As-rolled

Product Size: NPS 20 STD

2011 Sept 29

Product Standards: ASTM/ASME A/SA106-2010 Grade B/C, A/SA53-2010 Grade B Type S, NACE MR0175-2003

Product Markings: .BRI-STEEL MFG NPS 20 STD ASTM/ASME A/SA106 GR B/C A/SA53 GR B HEAT BSM-0038 (PIPE # LENGTH MASS) NDE 800PSI NACE MR0175 2011/09 MADE IN CANADA.

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BSM-0038	Heat		
Heat	Test Type		
20	NPS		P
STD	SCH		Product Detail
8	Pieces		S
DRL	Length		
78.60	lb/ft	Mass	
<5	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-D
Pass	TW	TU	estructive T
	ASTM E213	TU	esting
Pass	ASTM E309	П	
Pass	800 psi/5s	HydroTest	
37.5° Bevel	Condition	End	
	Heat 20 STD 8 DRL 78.60 <5 <20 Pass Pass Pass Pass Pass	Test Type NPS SCH Pieces Length lb/ft μR/hr Gauss Insp. OD WT ASTM E213 ASTM E309 800 psi/5s   Heat 20 STD 8 DRL 78.60 <5	Test TypeNPSSCHPiecesLengthlb/ftμR/hrGaussInsp.ODWTASTM E213ASTM E309800 psi/5sHeat20STD8DRL78.60<5

BSM-0038	Heat		
0038			
Heat	Test Type		
Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
0.20	C		
0.87	Mn		
0.015	P		
0.008	S		Chemical /
0.22	Si		Analysis (wt%)
0.03	Cr		(wt%)
0.11	Cu		
0.03	Mo		
0.03	Ni		
0.002	٧		
0.001	Ti		
0.001	Nb		
0.0002	В		N OF ALCOHOLOGY
0.37	(IIW)	Œ	
0.37	(CSA)	Œ	

34	78000	45700	50500	38mm x WT	Pass	76	Ferrite & Pearlite	Heat	BSM-0038
%	psi	psi	psi	Transverse; 50mm GL;	Flattening Test	HRBW	Microstructure	Test Type	Heat
Elongation (A)	Tensile (Rm)	Yield (Rp0.2)	Yield (Rt0.5)	Tension Test		Hardness			
				ical Properties	Mechani				

Additional Details:

Inc. in accordance with ASTM/ASME A/SA106-2010, A/SA53-2010 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

✓ 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

Service, and NACE MR0103-2010 Section 2.1.

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.

2013 Jan 25