

## Bri-Steel Manufacturing Inc.

2125-64 Avenue, Edmonton, AB Canada T6P 1Z4

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number: BSM-0187

Product Size:

Mill Test Certificate

**NPS 20 XS** 

Production Date: January 31, 2012

Production Method: Hot Expansion Product Heat Treatment: As-rolled

Product Standards: ASTM/ASME A/SA106-2010 Grade B/C, A/SA53-2010 Grade B Type S, NACE MR0175-2009

Product Markings: .BRI-STEEL MFG NPS 20 XS ASTM/ASME A/SA106 GR B/C A/SA53 GR B HEAT BSM-0187 (PIPE # LENGTH MASS) NDE 1260PSI NACE MR0175 2012/01 MADE IN CANADA.

		Т		
	BSM-0187	Heat		
	Heat	Test Type		
	20	NPS		-
	XS	SCH		Product Detai
	2	Pieces		ils
	DRL	Length		
	104.10	lb/ft	Mass	
	\$	μR/hr	Geiger	
	<20	Gauss	Res.Mag.	
100	Pass	Insp.	Visual	
20000	Pass	OD		Non-I
	Pass	WT	TU	Destructive 1
	1	ASTM E213	TU	esting
	Pass	ASTM E309	ET	
	Pass	1 E309 1260 psi/5s	HydroTest	
	37.5° Bevel	Condition	End	

VOTO-INICA	BCM 0197	неат			2000	
пеас	linat	lest Type	1			
Kelining; Vacuum Degas		Blast Furnace; EAF; Ladle		Steelmaking Method	2.	
0.19		C				
0.93	0	Μn				
0.017		Ъ				
0.010		S				Chemical Analysis (wt%)
0.25		Si				l Analysis
0.03		ť				(wt%)
0.13		5				
0.02		<u></u> ≤	200,000			
0.04		Z				
0.004		<	2000			
0.002	I	=!				
0.001		2				
0.0002		œ				
0.37	1	()		CF		
0.37		(CSA)		규 -		

	BSM-0187	Heat		
	Heat	_		
	Ferrite & Pearlite	Microstructure		
	76	HRBW	Hardness	
	Pass	Flattening Test		Mechar
Longitudinal	Transverse	Flattening Test 50mm GL; 38mm x WT	Tension Test	Mechanical Properties
44,500	47,300	psi	Yield (Rt0.5)	
44,000	46,300	psi	Yield (Rp0.2)	
73,500	74,500	psi	Tensile (Rm)	
0.61	0.63	(Rt0.5/Rm)	1/4	
42	41	%	Elongation (A)	

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

Mill Test Certificate approved by:

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.

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

2012 125/6