

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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Product: Seamless Carbon Steel Pipe

Product Heat Number:

Product Size:

BSM-1129

NPS 18 TRUE80

August 6, 2013

Production Date:

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

Product Standards: ASME B36.10-2004, ASTM/ASME A/SA106-2011 Grade B/C NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009, MR0103-2010

Product Markings: BRI-STEEL MFG ASTM/ASME A/SA106 GR B/C A/SA53 GR B NPS 18 TRUE80 0.94 inchWT HEAT BSM-1129 (PIPE # LENGTH MASS) 170.8lb/ft NDE SMLS NACE MR0175 2013/08 MIADE IN CANADA.

	BSM-1129	Heat		
	Heat	Test Type		
	NPS 18 TRUE80 0,94 in.WT	Product Size		Product Detail
	6	Pieces		S
	DRL	Length	2	
	170.80	lb/ft	Mass	
	S	μR/hr	Geiger	
	<20	Gauss	Res.Mag.	
7,000	Pass	Insp.	Visual	
	Pass	OD		Non-I
	Pass	TW	TU	Destructive
	Pass	ASTM E213	TU	Testing
	Pass	ASTM E309	E	
	*		HydroTest	
	Plain End	Condition	End	

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			Mechan	Mechanical Properties			
		Hardness		Tension Test	Yield (Rt0.5)	Tensile (Rm)	Τ/Υ
Heat Test Type	Microstructure	HRBW	Flattening Test	50mm GL	psi	psi	(Rt0.5/Rm)
BSM-1129 Heat	Ferrite & Pearlite	78	Pass	Longitudinal; 38.1mm x WT	53,000	71,500	0.74

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AVG	mm	mm	mm	AVG	%	%	%	AVG	_	J	_	Эē	Sample Details	Standard	Heat
	xpansion	Lateral E			hear	% SI			Energy	Impact		Temp	Impact Test	Test	

Additional Details:

results meet the corresponding requirements. Inc. in accordance with ASTM/ASME A/SA106-2011, A/SA53-2012, and the purchase order requirements, and that the $\checkmark~$ 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 meets 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 not come into contact with mercury during the Bri-Steel Manufacturing processes

√ This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1.

*Note that this product was hydrotested to 1000 psi for 5 seconds.

Mill Test Certificate approved by:

Kenton Dechant, P.Eng.

Manager of Quality and R&D