

Mill Test Certificate

Bri-Steel Manufacturing Inc. 2125-64 Avenue, Edmonton, AB Canada T6P 1Z4

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Product: Seamless Carbon Steel Pipe

Product Heat Number:

BSM-2084 Product Size: 36STD

Production Date: Oct 02, 2014

Production Method: Hot Expansion

Product Heat Treatment:

Certificate No.: MTR- 001401

Product Markings

Product Standards:

brizteel

NPS 36 STD 0.375 INCHWT SMLS 2014/10 NDE 790PSI

ASME B36.10-2004, ASTM/ASME A/SA106-2014 Grade B NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009 MR0103-2010

As-rolled

HEAT BSM-2084 (PIPE # LENGTH MASS) 142.7lb/ft ASTM/ASME A/SA106 GR B A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA

BSM-2084		Heat	
Heat		Test Type	
NPS 36 STD 0.375in. WT		Product Size	Product: Details
<u>щ</u>		Pieces	
DRL		Length	
142.7	lb/ft	Mass	
5	μR/hr	Geiger	
<10	Gauss	Res. Mag.	
Pass	Insp.	Visual	
Pass		OD	No
Pass	TW	TU	n-Destruc
Pass	ASTM E213 ASTM	TU	Non-Destructive Testing
Pass	ASTM	ΕŢ	
Pass	790 PSI/ 5 s	HydroTest	
Plain End	s Condition	End	

0.35	0.35	0.0003	0.001	0.001	0.003	0.03	0.01	0.07	0.05	0.20	0.010 0.004 0.20	0.010	0.84	0.19	Product 0.19	Cogas, ruly silien	
1	1	0.0003				0.03	0.01	0.07	0.03	0.24	0.011 0.004 0.24	_	0.90	0.21	Heat	Blast Furnace; EAF; Ladle Refining; Vacuum	BSM-2084
CE(CSA)	CE(IIW)	В	Nb	Ti	<	Ni	Mo	Си	Cr	Si	S	Ъ	Μ'n	C	Test Type	Steelmaking Method	Heat
									(wt%)	Analysis	Chemical Analysis (wt%)						

				**					
40	0.62	68,000	42,100	Longitudinal; 38.1 mm x WT	Pass	76 HRBW	Ferrite & Pearlite	Heat	BSM-2084
%	(Rt0.5/Rm)	psi	psi	50mm GL					
Elongation (A)	Υ/Τ	Tensile (Rm)	Yield (Rt0.5)	Tension Test	Flattening Test	Hardness	Microstructure	Test Type	Heat
				Mechanical Properties					

	В	Ī	
	BSM-2084		Heat
	1	Standard	Test
	1	Sample Details	Impact Test
	1	റ്	Temp
	ı	J	
	1	J	Impact
		J	Energy
		AVG	
	(E)	%	
	1	%	% Shear
	-	%	ear
	•	AVG	
	-	mm	
		mm	Lateral Ex
The second second	t	mm	(pansion
	t	AVG	

Additional Details:

✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008 and API Q1. ASTM/ASME A/SA106-2014 Grade B A/SA53-2012, and the purchase order requirements, and that the results meet the corresponding

Mill Test Certificate approved by:

√ This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour Service-2009 NACE MR0103-2010 Section 2.1

No weld repairs have been performed on this product.

√ This product has not come into contact with mercury during the Bri-Steel Manufacturing processes.

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

Tonya Lam, C.E.T.

Them Oct /08/2014

Assistant QA Manager