

Product:

Seamless Carbon Steel Pipe

## Mill Test Certificate

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

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Product Heat Number: BSM-2047 Product Size: 24STD Production Date: Sep 29, 2014

**Product Heat Treatment:** As-rolled Certificate No.: MTR- 001376

**Product Standards:** Production Method: ASME B36.10-2004, API 5L-45th Ed. Grade B/X42 PSL1, ASTM/ASME A/SA106-2014 Grade B NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009 MR0103-2010 **Hot Expansion** 

**Product Markings** HEAT BSM-2047 (PIPE # LENGTH MASS) 94.62Ib/ft ASTM/ASME A/SA106 GR B A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA <API & L/C No.> API SPEC 5L NPS 24 STD 0.375 INCHWT GR B/X42 PSL1 SMLS 2014/09 NDE 1180PSI

BSM-2047		Heat	
Heat		Test Type	
NPS 24 STD 0.375in. WT		Product Size	Product: Details
1		Pieces	
DRL		Length	
94.62	lb/ft	Mass	
\$	μR/hr	Geiger	
<10	Gauss	Res. Mag.	
Pass	Insp.	Visual	
Pass		8	, N
Pass	WT	듸	on-Destruc
Pass	ASTM E213 ASTM	듸	Non-Destructive Testing
Pass		띄	
Pass	1180 PSI/ 5 s Condition	HydroTest	
32.5° Bevel	s Condition	End	

	_	_		
		BSM-2047		
	Blast Furnace; EAF; Ladle Refining; Vacuum Degas; Fully Killed		Steelmaking Method	
	Product	Heat	Test Type	
	0.21	0.20	С	
	0.93	0.94	Mn	
	0.014	0.016	Р	
	0.014 0.012	0.011	S	Chemical
	0.24	0.24	Si	Chemical Analysis (wt%
	0.05	0.05	Cr	wt%)
	0.05	0.05	Cu	
1000	0.02	0.02	Мо	
	0.03	0.03	Z:	
	0.004		<	
	0.001		i.L	
	0.001		qN	
	0.0003	0.0003	В	
	0.39	-	CE(IIW)	
Annual Control of the	0.39	1	CE(CSA)	
			2	

nsile (Rm) Y/T psi (Rt0.5/Rm) 69,000 0.63
m) Y/T (Rt0.5/Rm) 0.63
/T Elongation (A) % 63 37

	BSM-2047		Heat	
	ı	Standard	Test	
		Sample Details	Impact Test	
0.00000	-	°C	Temp	
STEEL STATE OF STREET STATE OF STREET	9	J		
SEC. 1000/0000 1000	-	Į	Impact	
200	-	J	Energy	
0.00	•	AVG		
A	4	%		
	1	%	% Shear	
200	•	%	ear	
		AVG		
Control of Section (Section)	1	mm		
50100000000000000000000000000000000000	ı	mm	Lateral Ex	
	1	mm	eral Expansion	
STATES AND AND ASSESSED.	71	AVG		

## Additional Details:

- 🗸 We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008 and API Q1. API 5L-45th Ed., ASTM/ASME A/SA106-2014 Grade B A/SA53-2012, and the purchase order requirements, and that the results meet the
- √ 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.
- $\checkmark$  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.

Mill Test Certificate approved by:

Tham eld./01/2014

Tonya Lam, C.E.T.

Assistant QA Manager