

Product:

Seamless Carbon Steel Pipe

Product Heat Number:

BSM-2066

Mill Test Certificate

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

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Product Size: 20STD Production Date: Oct 01, 2014

As-rolled Certificate No.: MTR- 001397

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

<API & L/C No.> API SPEC 5L NPS 20 STD 0.375 INCHWT GR B/X42 PSL1 SMLS 2014/10 NDE 1420PSI

HEAT BSM-2066 (PIPE # LENGTH MASS) 78.6lb/ft ASTM/ASME A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA

Product Markings

BSM-2066		Heat	
Heat		Test Type	
NPS 20 STD 0.375in. WT		Product Size	Product: Details
2		Pieces	
DRL		Length	
78.6	lb/ft	Mass	
\$	μR/hr	Geiger	
<10	Gauss	Res. Mag.	
Pass	Insp.	Visual	
Pass		00	Z
Pass	TW	UŢ	Non-Destructive Testing
Pass	ASTM E213 ASTM	UT	tive Testing
Pass	ASTM	ET	
Pass	1420PSI/ 5 s	HydroTest	
32.5° Bevel	S Condition	End	

	BSM-2066	Heat	
DeBay, rully Nillen	Blast Furnace; EAF; Ladle Refining; Vacuum	Steelmaking Method	
Product 0.21	Heat	Test Type	
0.21	0.19	С	
0.86	0.86	Mn	
0.006	0.007	P	
0.006 0.014	0.007 0.011	S	Chemical Analysis (wt%)
0.23	0.22	Si	Analysis (
0.05	0.05	Cr	wt%)
0.10	0.09	Cu	
0.01	0.01	Mo	
0.06	0.07	N:	
0.003		٧	
0.001		Ti	
0.001		Nb	
0.0003	0.0003	В	
0.38	1	CE(IIW)	
0.38	1	CE(CSA)	

BSM-2066		Heat	
Heat		Test Type	
Ferrite & Pearlite		Microstructure	
75 HRBW		Hardness	
Pass		Flattening Test	
Longitudinal; 38.1 mm x WT	50mm GL	Tension Test	Mechanical Properties
 43,200	psi	Yield (Rt0.5)	
70,000	psi	Tensile (Rm)	
0.62	(Rt0.5/Rm)	1/4	
42	%	Elongation (A)	

BSM-2066		Heat	
1	Standard	Test	
j	Sample Details	Impact Test	
	°C	Temp	
	J		
	J	Impact	
ï	J	Energy	
1	AVG		
1	%		
1	%	% Shear	
	%	ear	
,	AVG		
-	mm		
1	mm	Lateral Expansion	
ī	mm	pansion	
1	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/C 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.

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:

1.lam

Tonya Lam, C.E.T.

Assistant QA Manager