

Mill Test Certificate

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

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BSM-2468 Product Size: NPS 30 STD Production Date: Jul 13, 2015

Certificate No.: MTR- 001881

Product Standards: ASME B36.10-2004, ASTM/ASME A106-2014/SA106-2013 Grade B/C NDE, A53-2012/SA53-2013 Grade B Type S, NACE MR0175-2009 MR0103-2012

Product Markings

Production Method:

Hot Expansion

Product Heat Treatment: Product Heat Number:

ThermoMechanical Formed

Product:

Seamless Carbon Steel Pipe

NPS 30 STD 0.375 INCHWT SMLS 2015/07 NDE 600PSI

HEAT BSM-2468 (PIPE # LENGTH MASS) 118.6Ib/ft ASTM/ASME A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA

	BSM-2468		Heat	
	Heat		Test Type	
	NPS 30 STD 0.375in. WT		Product Size	Product: Details
	з		Pieces	
	DRL		Pieces Length	
	118.6	lb/ft	Mass	
	Ġ	μR/hr	Geiger	
	<20	Gauss	Res. Mag.	
	Pass	Insp.	Visual	
	Pass		OD	N
Committee of the Commit	Pass	WT	TU	on-Destruc
200	Pass	ASTM E213	TU	Non-Destructive Testing
	Pass	ASTM E309	Ш	200.000
52,000,000	Pass	ASTM E213 ASTM E309 600 PSI/ 5	HydroTest	
	32	5 s Condition		
	32.5° Bevel	onditi	End	

			SM-2468	Heat	
		C. Bray Long Miles	Blast Furnace; EAF; Ladle Refining; Vacuum	Steelmaking Method	
		Product 0.17	Heat	Test Type	
		0.17	0.17	0	
	1	1.24	1.21	Mn	
200076	1	0.016	0.016	P	
	310	0.016 0.003	0.016 0.004 0.29	S	
Markaniani Barantian	-	0.30	0.29	Si	
	1	0.03	0.03	Cr	
000	1	0.01	0.01	Cu	
200 200 200 200	1	0.01	0.01	Мо	
	-	0.01	0.01	N:	
Salava	t	0.053	0.050	<	
20000	-	0.003	0.001	Ti	
	-	0.001	0.001	Nb	
	_	0.0004	0.0005	В	
	1	0.40	0.39	CE(IIW)	
	1	0.40	0.39	CE(CSA)	

BSI

Mechanical Properties

Lateral Expansion	Lateral	ar	% Shear	Impact Energy	Temp	Impact Test	lml	Test	Heat
40	0.72	73,000	52,500	Longitudinal; 1.5 in. x WT	Pass	80 HRBW	Ferrite & Pearlite	Heat	BSM-2468 Heat
%	(Rt0.5/Rm)	psi	psi	2 in. GL					
Elongation (A)	٧/٢	Tensile (Rm)	Yield (Rt0.5)	Tension Test	Flattening Test	Hardness	Microstructure	Test Type	Heat

Additional Details:

BSM-2468

Standard

Sample Details

Temp °C

mpact Energy

AVG

%

%

%

AVG

mm

mm

mm

AVG

✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing in accordance with corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008 and API Q1 ASTM/ASME A106-2014/SA106-2013, A53-2012/SA53-2013, and the purchase order requirements, and that the results meet the

 \checkmark This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour Service , and NACE MR0103-2012 Section 2.1

No weld repairs have been performed on this product.

 \checkmark This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1. √ This product has not come into contact with mercury during the Bri-Steel Manufacturing processes.

Mill Test Certificate approved by:

July 121/2015

Tonya Lam, C.E.T.

Assistant QA Manager