

Mill Test Certificate

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

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Product: Seamless Carbon Steel Pipe

Product Heat Number:

Product Size: 30STD

BSM-2305

Production Date: Mar 18, 2015

Production Method: Hot Expansion

Product Heat Treatment:

As-rolled

ASME B36.10-2004, ASTM/ASME A/SA333-2013 Grade 6 LT(M45C) A106-2014/SA106-2013 Grade B/C NDE, A53-2012/SA53-2013 Grade B Type S, NACE MR0175-2009 MR0103-

Certificate No.: MTR-001647

Product Standards:

Product Markings

NPS 30 STD 0.375 INCHWT SMLS 2015/03 NDE 600PSI

HEAT BSM-2305 (PIPE # LENGTH MASS) 118.6lb/ft ASTM/ASME A/SA333 GR 6 LT(M45C) A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN

	В			
	BSM-2305		Heat	
	Heat		Test Type	
	NPS 30 STD 0.375in. WT		Product Size	Product: Details
	24		Pieces	
	DRL		Length	
	118.6	lb/ft	Mass	
	Ġ	μR/hr	Geiger	
	<10	Gauss	Res. Mag.	
	Pass	Insp.	Visual	
	Pass		OD	No
	Pass	WT	TU	Non-Destructive Testing
	Pass	ASTM E213 ASTM	TU	ive Testing
	Pass	ASTM	ET	
Security of the second security of the second	Pass	600 PSI/ 5 s	HydroTest	
	32.5° Bevel	Condition	End	

	_		_		
		BSM-2305	Heat		
	organ, rank muco	Blast Furnace; EAF; Ladle Refining; Vacuum	Steelmaking Method		
	Product	Heat	Test Type		
	0.16	0.17	С		
	1.28	1.29	Mn		
	0.013	0.013	Р		
	0.007	0.006	S	Chemical	
	0.32	0.33	iS	Chemical Analysis (wt%)	
	0.04	0.04	Cr		
	0.01	0.01	Cu		
	0.01	0.01	Мо		
	0.04	0.04	N.		
	0.066	0.070	٧		
The second secon	0.002	0.001	П		
	0.001	0.001	Nb		
	0.0005	0.0007	В		
	0.40	-	CE(IIW)		
	0.40	1	CE(CSA)		

		1	_	_	des	_
	Heat		BSM-2305		Heat	
Standard	Test		Heat		Test Type	
Impact Test Sample Details			Ferrite & Pearlite		Microstructure	
			81 HRBW		Hardness	Security of the security of th
Temp °C			Pass		Flattening Test	
J J AVG	Impact Energy		Longitudinal; 38.1 mm x WT	50mm GL	Tension Test	iviecnanical Properties
%	% Shear		52,500	psi	Yield (Rt0.5)	
% AVG			73,500	psi	Tensile (Rm)	
mm mm	Lateral Expansion		0.71	(Rt0.5/Rm)	Т/4	
n mm			46	%	Elongation (A)	
AVG					n (A)	

Additional Details:

BSM-2305

ASTM A333

CVN Long 10 x 7.5 mm

-48

116.0

134.0

110.0

120.0 AVG

55 %

70 %

45 %

AVG 57

mm 2.42

mm 2.48

AVG 2.39

2.28 mm

✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with ASTM/ASME A/SA333-2013 Grade 6 LT(M4SC) A106-2014/SA106-2013 Grade B/C A53-2012/SA53-2013, and the purchase order requirements, and that the results meet the corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008

√ This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour Service-2009 NACE MR0103-2012 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:

Tonya Lam, C.E.T.

March /20/2015

Assistant QA Manager

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