

Mill Test Certificate

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

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Product Size: 24STD Production Date: Jan 21, 2015

Hot Expansion Product Heat Treatment: As-rolled Certificate No.: MTR- 001548

Product Standards: ASME B36.10-2004, API 5L-45th Ed. Grade B/X42 PSL1, ASTM/ASME A106-2014/SA106-2013 Grade B/C NDE, A53-2012/SA53-2013 Grade B Type S, NACE MR0175-2009 MR0103-

Product Markings

Production Method:

Product:

Seamless Carbon Steel Pipe

Product Heat Number:

BSM-2225

brirteel

HEAT BSM-2225 (PIPE # LENGTH MASS) 94.62lb/ft ASTM/ASME A/SA106 GR B/C 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 2015/01 NDE 1180PSI

BSM-2225		Heat	
25 Heat		t Test Type	
Ĺ		/pe	
NPS 24 STD 0.375in. WT		Product Size	Product: Details
27		Pieces	
DRL		Length	
94.62	lb/ft	Mass	
<5	μR/hr	Geiger	
<20	Gauss	Res. Mag.	X100000 00
Pass	insp.	Visual	
Pass		OD	No
Pass	WT	TU	Non-Destructive Testing
Pass	ASTM E213 ASTM	TU	ive Testing
Pass		ET	
Pass	1180 PSI/ 5 s Condition	HydroTest	
100	5 s	st	
32.5° Bevel	Condition	End	

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Heat	BSM-2225		Heat	
Test	Heat		Test Type	
	Ferrite & Pearlite		Microstructure	
Impact Test	79 HRBW		Hardness	
Temp	Pass		Flattening Test	
Impact Energy	Longitudinal; 38.1 mm x WT	50mm GL	Tension Test	Mechanical Properties
% Shear	45,800	psi	Yield (Rt0.5)	
ar	73,500	psi	Tensile (Rm)	
Latera	0.62	(Rt0.5/Rm)	1/4	27 (2002) (2004)
Lateral Expansion	42	%	Elongation (A)	

0.42	0.76	0.51	0.00	0	0	0	0	23.7	36.0	29.0	6.0	-48	CVN Long 10 x 7.5 mm	ASTM A333	BSM-2225
AVG	mm	mm	mm	AVG	%	%	%	AVG	J	J	J	°C	Sample Details	Standard	
	xpansion	Lateral E			Shear	% SI			t Energy	Impac		Temp	Impact Test	Test	Heat

Additional Details:

✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with API 5L-45th Ed., ASTM/ASME 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 and API Q1.

✓ 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.

✓ 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:

Jam San. 23.20/5

Tonya Lam, C.E.T.

Assistant QA Manager