

Product:

Seamless Carbon Steel Pipe

Product Heat Number:

Mill Test Certificate

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

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BSM-2094 Product Size: 24STD Production Date: Oct 14, 2014

Production Method: Hot Expansion Product Heat Treatment: As-rolled Certificate No.: MTR- 001418

Product Standards: ASME B36.10-2004, API 5L-45th Ed. Grade B/X42/X46/X52 PSL1, ASTM/ASME A/SA33-2013 Grade 6 LT(M45C) A/SA106-2014 Grade B/C NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009 MR0103-2010

Product Markings

HEAT BSM-2094 (PIPE # LENGTH MASS) 94.62lb/ft ASTM/ASME A/SA333 GR 6 LT(M45C) A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN <API & L/C No.> API SPEC 5L NPS 24 STD 0.375 INCHWT GR B/X42/X46/X52 PSL1 SMLS 2014/10 NDE 1470PSI

R/hr Gauss Insp. WT ASTM E213 ASTM <5 <10 Pass Pass Pass Pass Pass	DRL 94.62	18	NPS 24 STD 0.375in. WT		
Gauss Insp. WT	 lb/ft			Heat	BSM-2094
Geiger Res. Mag. Visual OD UT	Length Mass	Pieces	Product Size	Test Type	Heat
Non-Destructive Testing			Product: Details		

Heat BSM-2094		Test Type Heat	C 0.17	Mn 1.11	P 0.017	Mn P S Si C 1.11 0.017 0.003 0.35 0.3	Si 0.35	Cr 0.12	Cu 0.03	Mo 0.01	0.06	0.060	ī	N _P	В	CE(IIW)	CE(CSA)
BSM-2094		Heat		1.11	0.017	0.003	0.35	0.12	0.03	0.01	0.06	0.060				1	1
	regas, rony mice	Product	0.19	1.11	0.014	0.014 0.003	0.36	0.05	0.03	10.0	0.03	0.071	0.003	0.001	0.0004	0.41	0.41
	444									81							

BS	Г		Г
BSM-2094		Heat	
Heat		Test Type	
Ferrite & Pearlite		Microstructure	
82 HRBW		Hardness	
Pass		Flattening Test	
Longitudinal; 38.1 mm x WT	50mm GL	Tension Test	Mechanical Properties
55,500	psi	Yield (Rt0.5)	
75,500	psi	Tensile (Rm)	
0.74	(Rt0.5/Rm)	۲/۲	
41	%	Elongation (A)	

	BSN		
	BSM-2094		Heat
	ASTM A333	Standard	Test
	CVN Long 10 x 7.5 mm	Sample Details	Impact Test
	-48	റ്	Temp
	82.0	_	
	66.5	_	Impact
	68.0	J	Energy
	153.7	AVG	
	20	%	
	15	%	% Shea
	20	%	ear
	18	AVG	
99	1.80	mm	
	2.50	mm	Lateral Ex
-	2.54	mm	xpansion
- Control	2.28	AVG	

Additional Details:

- ✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with requirements, and that the results meet the corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008 API 5L-45th Ed., ASTM/ASME A/SA333-2013 Grade 6 LT(M45C) A/SA106-2014 Grade B/C A/SA53-2012, and the purchase order
- √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.
- \prime 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.

Tonya Lam, C.E.T.

ext /16/2014

Mill Test Certificate approved by:

Assistant QA Manager

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