

Bri-Steel Manufacturing Inc.

2125-64 Avenue, Edmonton, AB Canada T6P 1Z4

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number: BSM-0342

Product Size:

Mill Test Certificate

NPS 24 STD

Production Date:

May 23, 2012

Production Method:

Hot Expansion

Product Heat Treatment: As-rolled

Product Standards: ASTM/ASME A/SA106-2011 Grade B, A/SA53-2012 Grade B Type S, NACE MR0175-2009

Product Markings: .BRI-STEEL MFG NPS 24 STD ASTM/ASME A/SA106 GR B A/SA53 GR B HEAT BSM-0342 (PIPE # LENGTH MASS) 94.621b/ft NDE 740PSI NACE MR0175 2012/05 MADE IN CANADA.

	BSI			Τ
	BSM-0342	Heat		
	Heat	Test Type	1	
	24	NPS		P
	STD	SCH		Product Detai
	13	Pieces		ils
	DRL	Length	29	
	94.62	lb/ft	Mass	
	G	μR/hr	Geiger	
	<20	Gauss	Res.Mag.	
1	Pass	Insp.	Visual	
	Pass	OD		Non-D
	Pass	WT	TU	Destructive 1
	1	ASTM E213	TU	esting
	Pass	ASTM E309	ΕT	
	Pass	740 psi/5s	HydroTest	
	37.5° Bevel	Condition	End	

	BSM-0342	Heat		
	Heat	Test Type		
	Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
	0.22	C		
	0.87	M		
	0.007	Ъ		
	0.004	S		Chemica
Ì	0.24	Si		Analysis (wt%)
	0.05	Çŗ		(wt%)
- CONTROL - CONTROL	0.09	Cn		
	0.02	Mo		
	0.04	N:		
	0.003	<		
	100.0	Ti		
	0.001	Nb		
	0.0003	В		
	0.39	(IW)	Œ	
	0.40	(CSA)	æ	

		BSM-0342 Heat	Heat		
		Heat	Test Type		
		Ferrite & Pearlite	Microstructure		
		73	HRBW	Hardness	
		Pass	Flattening Test		Mechar
	Longitudinal	Transverse	Flattening Test 50mm GL; 38mm x WT	Tension Test	Mechanical Properties
	41,400	36,800	psi	Yield (Rt0.5)	
	40,800	35,400	psi	Yield (Rp0.2)	
200	67,500	67,000	psi	Tensile (Rm)	
	0.61	0.55	(Rt0.5/Rm)	Υ/Τ	
	46	45	%	Elongation (A)	

Additional Details:

results meet the corresponding requirements. Inc. in accordance with ASTM/ASME A/SA106-2011, A/SA53-2012 and the purchase order requirements, and that the We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing

Service, and NACE MR0103-2010 Section 2.1. \checkmark No weld repairs have been performed on this product. This product has no mercury contamination.

This pipe product meet the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour

This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1.

Mill Test Certificate approved by:

Kenton Dechant, P.Eng. 2012 June 13

Manager of Quality and R&D