

Mill Test Certificate

Bri-Steel Manufacturing Inc. 2125-64 Avenue, Edmonton, AB Canada T6P 1Z4 Tel: 001 (780) 469-6603 Fax: 001 (780) 469-6986 www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Product Heat Number:

BSM-0564 Pr

Product Size: NPS 30

NPS 30 STD

Production Date:

: November 21, 2012

Production Method: Hot Expansion Product Heat Treatment: As-rolled

Product Standards: ASME B36.10-2004, API 5L-44th Ed. Grade PSL1, ASTM/ASME A/SA106-2011 Grade B NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009, MR0103-2010

Product Markings: .BRI-STEEL MFG <API> 5L-0898 API 5L Gr B PSL1 ASTM/ASME A/SA106 GR B A/SA53 GR B NPS 30 STD HEAT BSM-0564 (PIPE # LENGTH MASS) 118.6Ib/ft NDE 630 PSI SMLS NACE MR0175 2012/11 MADE IN CANADA.

BSM-0564	Heat		
Heat	Test Type		
30	NPS		
STD	Thickness	Wall	Product Detail
29	Pieces		S
DRL	Length		
118.60	lb/ft	Mass	
ŝ	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	99		Non-[
Pass	WT	딕	estructive T
Pass	ASTM E213	TU	Testing
Pass	ASTM E309	ET	
Pass	630 psi/5s	HydroTest	
37.5° Bevel	Condition	End	

	В	Т		Т
	BSM-0564	Heat		
Vacuum Degas; Fully Killed	Blast Furnace; EAF; Ladle Refining;	Steelmaking Method		
Product	Heat	Analysis		
0.20	0.19	C		
0.89	0.87	Mn		
0.017	0.009	P		
0.011	0.007	S		Chemical Analysis (wt%)
0.24	0.22	Si		Analysis
0.02	0.04	ਪ		(wt%)
0.08	0.06	U.		
0.02	0.03	Mo		
0.04	0.04	Z.		
0.003	. 1	<		
0.001		Ti.		
0.002		Nb		
0.0003	0.0001	В		
0.36	t	(IIW)	CE	
0.37	1	(CSA)	CE	
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	BSM-056	Heat		
	BSM-0564 Heat	Test Type		
	Ferrite & Pearlite	Microstructure		
	75	HRBW	Hardness	
	Pass	Flattening Test		Mechar
Longitudinal; 38.1mm x WT	Transverse; 38.1mm x WT	50mm GL	Tension Test	Mechanical Properties
44,400	39,900	psi	Yield (Rt0.5)	
44,800	006′88	psi	Yield (Rp0.2)	
70,000	70,000	psi	Tensile (Rm)	
0.63	0.57	(Rt0.5/Rm)	1/4	
44	44	%	Elongation (A)	

Additional Details:

and that the results meet the corresponding requirements. Inc. in accordance with API 5L-44th Ed., ASTM/ASME A/SA106-2011, A/SA53-2012 and the purchase order requirements, ✓ 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. This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour

✓ No weld repairs have been performed on this product.

✓ This product has not come into contact with mercury during the Bri-Steel Manufacturing processes
✓ 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. Manager of Quality and R&D

2013 June 20