

Mill Test Certificate

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Seamless Carbon Steel Pipe

Product Heat Number:

BSM-1726

Product Size: 16S100

Production Date: Mar 26, 2014

Production Method: Hot Expansion

Product Heat Treatment: As-rolled

Certificate No.: MTR- 001092

Product Markings Product Standards: ASME B36.10-2004, ASTM/ASME A/SA106-2013 Grade B NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009 MR0103-2010

NPS 16 SCH 100 1.031 INCHWT SMLS 2014/03 NDE ANUIZABIUEINGII HEAT BSM-1726 (PIPE # LENGTH MASS) 164.8Ib/ft ASTM/ASME A/SA106 GR B A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA

	BSM-1726		Heat	
	Heat		Test Type	
	NPS 16 SCH 100 1.031in. WT		Product Size	Product: Details
	1		Pieces	
	DRL		Length	
	164.8	lb/ft	Mass	
	<5	μR/hr	Geiger	
	<10	Gauss	Res. Mag.	
	Pass	Insp.	Visual	
	Pass		OD	N
Constitution of the Consti	Pass	WT	TU	Non-Destructive Testing
	Pass	ASTM E213	TU	ive Testing
The second second second second	Pass	ASTM	ET	
	*		HydroTest	
The second secon	Plain End	Condition	End	

	BSI	Γ	
	BSM-1726	Heat	
regos, ruily nined	Blast Furnace; EAF; Ladle Refining; Vacuum	Steelmaking Method	
Product	Heat	Test Type	
0.21	0.21	С	
0.89	0.90	Mn	
0.015	0.017	Р	
0.002	0.002	S	Chemical Analysis (wt%)
0.30	0.29	Si	Analysis (
0.07	0.06	Cr	wt%)
80.0	0.06	Cu	
0.01	0.01	Mo	
0.03	0.02	Ni	
0.003	0.004	٧	
0.001	0.002	Ti	
0.001	100.0	qN	
2000.0	0.0002	В	
0.38	,	CE(IIW)	
0.38		CE(CSA)	

46	0.64	69,000	44,500	Longitudinal; 19.05 mm x WT	Pass	75 HRBW	Ferrite & Pearlite	Heat	BSM-1726
%	(Rt0.5/Rm)	psi	psi	50mm GL					
Elongation (A)	Υ/Τ	Tensile (Rm)	Yield (Rt0.5)	Tension Test	Flattening Test	Hardness	Microstructure	Test Type	Heat
				Mechanical Properties					

	BSM-1726		Heat	
	t	Standard	Test	
	1	Sample Details	Impact Test	
		°C	Temp	
	,	J		
	1	J	Impact	
	ı	J	Energy	
	·	AVG		
	t	%		
	1	%	% Shear	
	•	%		
	-	AVG		
	•	mm		
	1	mm	Lateral Ex	
2000000	t	mm	pansion	
	1	AVG		

Additional Details:

- \checkmark We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing lnc. in accordance with ASTM/ASME A/SA106-2013 Grade B A/SA53-2012, and the purchase order requirements, and that the results meet the corresponding requirements.
- ✓ 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.
- ✓ 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.
- * Note that this product was hydrotested to 1000 psi for 5 seconds.

Mill Test Certificate approved by:

Manager of Quality and R&D Kenton Dechant, P.Eng.

2014 May 21