

Mill Test Certificate

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Product: Seamless Carbon Steel Pipe Product Heat Number: BSM-2012 Product Size: 26XS Production Date: Sep 15, 2014

Hot Expansion Product Heat Treatment: As-rolled Certificate No.: MTR- 001340

Product Standards: ASME B36.10-2004, API 5L-45th Ed. Grade B PSL1, ASTM/ASME A/SA106-2013 Grade B NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009 MR0103-2010

Product Markings

Production Method:

bri/teel

HEAT BSM-2012 (PIPE # LENGTH MASS) 136.2Ib/ft ASTM/ASME A/SA106 GR B A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA <API & L/C No.> API SPEC 5L NPS 26 XS 0.500 INCHWT GR B PSL1 SMLS 2014/09 NDE 900PSI

	В		_	
	BSM-2012		Heat	
	Heat		Test Type	
	NPS 26 XS 0.500in. WT		Product Size	Product: Details
	7		Pieces	
	DRL		Length	
	136.2	lb/ft	Mass	
	<5	μR/hr	Geiger	
0.000000	<10	Gauss	Res. Mag.	
	Pass	Insp.	Visual	
	Pass		OD	No
	Pass	WT	TU	on-Destruc
	Pass	ASTM E213 ASTM	UT	Non-Destructive Testing
	Pass	ASTM	ET	
	Pass	900 PSI/ 5 s Condition	HydroTest	
	32.5° Bevel	s Condition	End	

0.34	0.34	2000.0	0.001	0.001	0.002	0.03	0.01	0.08	0.03	0.24	0.005	0.008	0.86	0.18	Product	Cegas, runy sineu	
•	1	0.0003	225			0.04	0.01	0.08	0.03	0.25	0.005	0.009	0.87	0.18	Heat	Blast Furnace; EAF; Ladle Refining; Vacuum	BSM-2012
CE(CSA)	CE(IIW)	В	Nb	Ti	٧	N:	Мо	Cu	Cr	Si	S	Р	Mn	С	Test Type	Steelmaking Method	Heat
			8	2	100				(wt%)	Analysis	Chemical Analysis (wt%)						

	BSM-2012		_	
	-2012		Heat	
	Heat		Test Type	
	Ferrite & Pearlite		Microstructure	
	77 HRBW		Hardness	
200	Pass		Flattening Test	-
	Longitudinal; 38.1 mm x WT	50mm GL	Tension Test	Mechanical Properties
Section 1995	44,900	psi	Yield (Rt0.5)	
The second secon	69,000	psi	Tensile (Rm)	
The second secon	0.65	(Rt0.5/Rm)	Υ/Τ	
The second secon	45	%	Elongation (A)	

BSM-2012		Heat
1	Standard	Test
1	Sample Details	Impact Test
1	°C	Temp
	L	
	J	Impact
ı	J	Energy
•	AVG	
r.	%	
-	%	% Shear
r	%	ear
C	AVG	
i.	mm	
Ü	mm	Lateral Expansion
t	mm	pansion
t:	AVG	

Additional Details:

- We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008 and API Q1. API 5L-45th Ed., ASTM/ASME A/SA106-2013 Grade B A/SA53-2012, and the purchase order requirements, and that the results meet the
- √ 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.
- \checkmark 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:

Mar/81/18/2014

Tonya Lam, C.E.T.

Assistant QA Manager