

Mill Test Certificate

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Seamless Carbon Steel Pipe **Product Heat Number:** BSM-2290 Product Size: 18STD Production Date:

Mar 10, 2015

Hot Expansion Certificate No.: MTR-

Product Heat Treatment: As-rolled

ASME B36.10-2004, API 5L-45th Ed. Grade B/X42 PSL1, ASTM/ASME A106-2014/SA106-2013 Grade B/C NDE, A53-2012/SA53-2013 Grade B Type S, NACE MR0175-2009 MR0103-

Product Standards: Production Method:

Product:

Product Markings

<API & L/C No.> API SPEC 5L NPS 18 STD 0.375 INCHWT GR B/X42 PSL1 SMLS 2015/03 NDE 1490PSI HEAT BSM-2290 (PIPE # LENGTH MASS) 70.59lb/ft ASTM/ASME A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA

BSM-2290		Heat	
Heat		Test Type	
NPS 18 STD 0.375in. WT		Product Size	Product: Details
3		Pieces	
DRL		Length	
70.59	lb/ft	Mass	
<5	μR/hr	Geiger	
<10	Gauss	Res. Mag.	
Pass	Insp.	Visual	
Pass		00	N
Pass	TW	TU	on-Destruc
Pass	ASTM E213	UT	Non-Destructive Testing
Pass	ASTM	티	
Pass	1490 PSI/ 5	HydroTest	
32.5° Bevel	S Condition	End	

		BS		Γ
		BSM-2290	Heat	
	Cegas, rully silled	Blast Furnace; EAF; Ladle Refining; Vacuum	Steelmaking Method	
	Product	Heat	Test Type	
	0.23	0.20	С	
200	0.88	0.87	Mn	
	0.023	0.009	Р	
	0.016	0.005	S	Chemical Analysis (wt%
	0.26	0.23	Si	Analysis (
	70.0	0.05	Cr	wt%)
	0.01	0.03	Cu	
	0.01	0.01	Mo	
	0.03	0.01	Ni	
-	0.003	0.005	٧	
-	0.002	ť	П	
-	0.001	ı	Nb	
-	0.0004		В	
	0.40		CE(IIW)	
-	0.40	t	CE(CSA)	

mm AVG	mm	mm	AVG	%	%	%	AVG		_	°°	Sample Details	Samp	Standard	
kpansion	Lateral Expansion			% Shear	%		•	Impact Energy		Temp	Impact Test	lmp	Test	Heat
									The second second					
40	0.65	0	74,000		48,100		1 mm x WT	Longitudinal; 38.1 mm x	Lon	Pass	79 HRBW	Ferrite & Pearlite	Heat	BSM-2290
%	(Rt0.5/Rm)	(RtO	psi		psi		iL	50mm GL						
Elongation (A)	1/4		Гensile (Rm)		Yield (Rt0.5)	·	est	Tension Test		Flattening Test	Hardness	Microstructure	Test Type	Heat
								Mechanical Properties	Mechanica					

Additional Details:

BSM-2290

✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with API 5L-45th Ed., ASTM/ASME A106-2014/SA106-2013 Grade B/C A53-2012/SA53-2013, and the purchase order requirements, and that the results meet the corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008 and API Q1

✓ This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour Service-2009 NACE MR0103-2012 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.

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

Mill Test Certificate approved by:

MAR/12/2015

Tonya Lam, C.E.T.

Assistant QA Manager