

Product:

Seamless Carbon Steel Pipe

Mill Test Certificate

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Product Heat Number: BSM-2250 Product Size: 18STD Production Date: Feb 23, 2015

Production Method: Hot Expansion Product Heat Treatment: As-rolled Certificate No.: MTR- 001593

Product Standards: 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 Markings

brirteel

<API & L/C No.> API SPEC 5L NPS 18 STD 0.375 INCHWT GR B/X42 PSL1 SMLS 2015/02 NDE 1490PSI HEAT BSM-2250 (PIPE # LENGTH MASS) 70.59lb/ft ASTM/ASME A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA

BSM-2250		Heat	
Heat		Test Type	
NPS 18 STD 0.375in. WT		Product Size	Product: Details
 11		Pieces	51.05
DRL		Length	
70.59	lb/ft	Mass	
S	μR/hr	Geiger	
<10	Gauss	Res. Mag.	
Pass	Insp.	Visual	
Pass		OD	No
Pass	WT	TU	on-Destruct
Pass	ASTM E213 ASTM	UT	Non-Destructive Testing
Pass	ASTM	ET	
Pass	1490 PSI/ 5 s	HydroTest	
32.5° Bevel	Condition	End	

	BSM-2250	Heat	
oceas, rony amen	Blast Furnace; EAF; Ladle Refining; Vacuum	Steelmaking Method	
Product	Heat	Test Type	
0.25	0.20	С	
0.90	0.86	Mn	
0.025	0.020	Р	
0.019	0.015	S	Chemical Ar
0.29	0.27	Si	Analysis (
0.07	0.06	Cr	wt%)
0.01	0.01	Cu	
0.00	0.01	Mo	
0.03	0.03	N:	
0.004	0.002	٧	
0.003		Π	
0.001		Иb	
0.0003	E	В	
0.42	ı	CE(IIW)	
0.42		CE(CSA)	

Heat Test Type Microstructure Hardness Flattening Test Tension Test
Microstructure
Microstructure Hardness Flattening Test Tension Test Yield (Rt0.5) Tensile (Rm) Y/T Elongation Ferrite & Pearlite 78 HRBW Pass Longitudinal; 38.1 mm x WT 43,000 73,500 0.59 40 Impact Test Temp Impact Energy J J AVG % AVG mm
Nechanical Properties
Mechanical Properties
Test Yield (Rt0.5) Tensile (Rm) Y/T Elongation GL psi (Rt0.5/Rm) % .1 mm x WT 43,000 73,500 0.59 40 gy % Shear Lateral Expansion AVG % % AVG mm mm mm
Yield (Rt0.5) Tensile (Rm) Y/T Elongation psi psi (Rt0.5/Rm) % 43,000 73,500 0.59 40 % Shear Lateral Expansion % AVG mm mm mm
Tensile (Rm) Y/T Elongation psi (Rt0.5/Rm) % 73,500 0.59 40 Lateral Expansion M AVG mm mm mm
Y/T Elongation .5/Rm) % 3.59 40 Lateral Expansion
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1 (A)

Additional Details:

BSM-2250

- ✓ 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.
- √ 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:

Mam 146/28/2015

Tonya Lam, C.E.T.

Assistant QA Manager