

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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Seamless Carbon Steel Pipe Product Heat Number: BSM-0271 Product Size: NPS 24 STD Production Date:

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

Product:

Product Standards: ASTM/ASME A/SA106-2011 Grade B/C, A/SA53-2010 Grade B Type S, NACE MR0175-2009

Product Markings: .BRI-STEEL MFG NPS 24 STD ASTM/ASME A/SA106 GR B/C A/SA53 GR B HEAT BSM-0271 (PIPE # LENGTH MASS) 94.621b/ft NDE 740PSI NACE MR0175 2012/03 MADE IN CANADA.

BSM-027	Heat	:	
271 Heat	Test Type		
eat	Type		
24	NPS		P
STD	SCH		Product Detail
10	Pieces		ils
DRL	Length		
94.62	lb/ft	Mass	
6	µR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-D
Pass	WT	IN	estructive T
	ASTM E213	IN	esting
Pass	ASTM E309	ET	
Pass	740 psi/5s	HydroTest	
37.5° Bevel	Condition	End	

BSM-027	Heat	•	
F	1		1
Heat	Test Type		
Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
0.21	C		
0.90	Mn		
0.011	P		
0.011 0.010	S		Chemical
0.23	Si		Analysis
0.03	Cr		(wt%)
0.12	Cn		
0.02	Mo		
0.03	Z.		
0.004	<		
0.001	Ti		
0.002	Nb		
0.0002	В		
0.38	(WII)	CE	
0.39	(CSA)	Œ	

		Т-		Т
	BSM-0271 Heat			
	Heat			
	Ferrite & Pearlite	Microstructure		
	77	HRBW	Hardness	
	Pass	Flattening Test		Mechan
Longitudinal	Transverse	50mm GL; 38mm x WT	Tension Test	Mechanical Properties
48,500	43,300	psi	Yield (Rt0.5)	
48,100	43,000	psi	Yield (Rp0.2)	
75,000	75,500	psi	Tensile (Rm)	
0.65	0.57	(Rt0.5/Rm)	T/Y	
37	38	%	Elongation (A)	

Additional Details:

Inc. in accordance with ASTM/ASME A/SA106-2011, A/SA53-2010 and the purchase order requirements, and that the results meet the corresponding 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. \checkmark This pipe product meet 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 no mercury contamination. This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1.

Mill Test Certificate approved by:

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