

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product: Seamless Carbon Steel Pipe

Production Method:

Product Heat Number: BSM-0253

Product Size:

NPS 20 TRUE80

Production Date: March 9, 2012

Hot Expansion Product Heat Treatment: As-rolled

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

Product Markings: .BRI-STEEL MFG NPS 20 TRUE80 ASTM/ASME A/SA106 GR B A/SA53 GR B HEAT BSM-0253 (PIPE # LENGTH MASS) NDE NH 1000PSI NACE MR0175 2012/03 MADE IN CANADA.

B	Т		Т
BSM-0253	неат		
Heat	lest Type	4	
20	NPS	7	_
TRUE80	SCH)	Product Detail
7	Pieces	!	S
DRL	Length		
208.90	lb/ft	Mass	
<5	µR/hr	Geiger	
 <20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-E
Pass	WT	TU	Destructive 1
	ASTM E213	TU	esting
Pass	ASTM E309	ET	
*	1000 psi/5s	HydroTest	
37.5° Bevel	Condition	End	

BSM-0253	Heat		
Heat	lest lype	1	
Refining; Vacuum Degas	Blast Furnace; EAF; Ladle	Steelmaking Method	
0.19	C		
0.86	Mn		
0.008	P		
0.005	S		Chemical Ar
0.25	Si		Analysis (wt%)
0.04	c		(wt%)
0.10	೧		
0.01	Mo		
0.03	Z.		
0.002	<		
0.002	#		
0.001	Nb		
0.0001	В		
0.35	(IIW)	Œ	
0.35	(CSA)	Œ	

	BSM-0253 Heat	Heat		
	Heat	Test Type		
	Ferrite & Pearlite	Microstructure		
	76	HRBW	Hardness	
	Pass	Flattening Test		Mechan
Longitudinal	Transverse	Flattening Test 50mm GL; 38mm x WT	Tension Test	Mechanical Properties
42,400	49,700	psi	Yield (Rt0.5)	
42,500	48,300	psi	Yield (Rp0.2)	
69,500	69,500	psi	Tensile (Rm)	
0.61	0.72	(Rt0.5/Rm)	Υ/Τ	
52	50	%	Elongation (A)	

Additional Details:

results meet the corresponding requirements. Inc. in accordance with ASTM/ASME A/SA106-2011, A/SA53-2010 and the purchase order requirements, and that the ✓ 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. 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.

 st The hydrotest was performed at a test pressure lower than recommended by ASTM/ASME A/SA106 and A/SA53

Mill Test Certificate approved by:

Kenton Dechant, P.Eng.

Manager of Quality and R&D