

Mill Test Certificate

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Product Heat Number: BSM-2214 Product Size: NPS 20 STD Production Date: January 8, 2015

Product Heat Treatment: Thermomechanical Formed Certificate Number: 1849

Product Standards: ASME B36.10-2004, ASTM/ASME A/SA53 Grade A Type E

Production Method:

HFIW & Hot Expansion

Product:

Welded Carbon Steel Pipe

Product Markings: BRI-STEEL MFG NPS 20 STD 0.375 INCHWT HFIW 2015/01 NDE 800PSI

HEAT BSM-2214 (PIPE # LENGTH MASS) 78.60 LB/FT ASTM/ASME A/SA53 GR B MADE IN CANADA

BSM-2214	Heat		
Heat	Test Type		
NPS 20 STD 0.375 in.WT	Product Size		Product Detail
1	Pieces		S
DRL	Length		
78.60	lb/ft	Mass	
S	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	lnsp.	Visual	
Pass	OD		Non-Dest
Pass	TW	IN	estructive T
Pass	ASTM E213	TU	esting
Pass	ASTM E309	TI	0.00
Pass	800 psi/5s	HydroTest	
32.5º Bevel	Condition	End	

BSM-2214		Heat		
Vacuum Degas	Blast Furnace; EAF; Ladle Refining;	Steelmaking Method		
Product	Heat	Analysis		
0.17	0.11	С		
0.44	0.43	Mn		
0.030	0.43 0.025 0.010	Р		
0.17 0.44 0.030 0.014 0.17	0.010	S		Chemica
0.17	0.16	Si		Chemical Analysis (wt%)
0.02	0.03	Cr		(wt%)
0.02	0.04	Cu		
0.02	0.01	Mo		
0.01	0.03	N:		
0.004	0.001	<		
0.001	0.001	П		
0.001	0.001	Nb		
0.0002	1s	В		
0.25	-	(IIW)	CE	
0.25	1	(CSA)	E	

	_	_		
	BSM-2214 Heat	Heat		
	Heat	Test Type		
	Ferrite & Pearlite	Microstructure		
	70	HRBW	Hardness	
	Pass	Flattening Tests		Mechar
Transverse to Weld; 38mm	Longitudinal; 25.4mm x WT	50mm GL	Tension Test	Mechanical Properties
	41,800	psi	Yield (Rt0.5)	
63,500	57,000	psi	Tensile (Rm)	
1	0.73	(Rt0.5/Rm)	Т/ү	
ı	47	%	Elongation (A)	

Additional Details:

corresponding requirements. in accordance with ASTM/ASME A/SA53 and the purchase order requirements, and that the results meet the ✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing

✓ No weld repairs have been performed on this product.

√ 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:

Kenton Dechant, P.Eng. 2015 Aug 3

Manager of Quality and R&D