

Product:

Seamless Carbon Steel Pipe

Production Method:

Hot Expansion

Product Heat Treatment:

As-rolled

Product Heat Number:

Mill Test Certificate

Bri-Steel Manufacturing Inc.

2125-64 Avenue, Edmonton, AB Canada T6P 1Z4 Fax: 001 (780) 469-6986 Tel: 001 (780) 469-6603

www.brichemsteel.com

Product Size: NPS 22 STD Production Date: MTR Jan 29, 2015 000830

BSM-2233

Product Standards: ASME B36.10-2004, ASTM A335/ASME SA335-2011 GR. P11, NACE MR0175-2009 MR0103-2012

Product Markings: BRI-STEEL MFG NPS 22 STD 0.375 INCHWT SMLS 2015/01 UT 750PSI

HEAT BSM-2233(PIPE# LENGTH MASS)78.72lb/ft ASTM A335/ASME SA335 GR. P11 MADE IN CANADA.

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	BSM-2233	пеац	1		
	Heat	rest Type	† } †		
	NPS 22 STD 0.375 in.WT	Product Size*			Product Detail
	ъ	Pieces	?		S
	DRL	Length			
	78.72	lb/ft	Mass		
	S	µR/hr	Geiger		
	<20	Gauss	Res.Mag.		
388	Pass	insp.	Visual		
	Pass	OD			Non-I
100000000000000000000000000000000000000	Pass	WT	Ч		Non-Destructive Te
	Pass	ASTM E213	듸	0	Testing
-	Pass	ASTM E309	円		
	Pass	ASTM E213 ASTM E309 750 psi/5s Condition	HydroTest		
	32.5° Bevel	Condition	End		

	BSM-2233			Heat		
	Vacuum Degas; Fully Killed	Blast Furnace; EAF; Ladle Refining;		Steelmaking Method		
	Product	Heat		Analysis		
	0.11	0.12		C		
	0.41 0.009 0.002 0.56 1.23	0.12 0.42 0.009		Z n		
	0.009	0.009		70		
	0.002	0.001		s		Chemical
	0.56	0.58 1.25		<u>s</u>		Chemical Analysis (wt%)
	1.23	1.25		ڻ د		(wt%)
	0.08			5		
	0.52	0.53		<u>S</u>		
	0.08			<u>z</u> .		
	0.003			<		
	0.003	ı		#		
	0.002	t				
	0.0003			D		
	0.37	1	(11144)	(1)	Œ	
0.01	0.37	,	(400)	(CSA)	Œ	

BSM-2233 Heat	Heat		
Heat	Test Type		
Ferrite & Pearlite	Microstructure		
84	HRBW	Hardness	
Pass	Flattening Test		Mecha
Longitudinal; 38.1mm x WT	50mm GL	Tension Test	Mechanical Properties
42,300	psi	Yield (Rt0.5)	
86,000	psi	Tensile (Rm)	
0.49	(Rt0.5/Rm)	Υ/Τ	
36	%	Elongation (A)	

Additional Details:

- corresponding requirements. Inc. in accordance with ASTM/ASME A/SA335-2011, and the purchase order requirements, and that the results meet the $\checkmark~$ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing
- √ 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:

Assistant QA Manager Tonya Lam, C.E.T.

^{*}This product was manufactured with a specified minimum wall thickness of 0.375inches.