



Mill Test Certificate

Bri-Steel Manufacturing
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Product: **Seamless Alloy Steel Pipe** Product Heat Number: **BSM-2926** Product Size: **NPS 36 SCH 30** Production Date: **October 24, 2016**

Production Method: **Hot Expansion** Product Heat Treatment: **Full Annealed (920°C)** Certificate No: **003017**

Product Standards: **ASME B36.10M-2015, ASTM A335-2015a/ASME SA335-2015 GRADE P22**

Product Markings: **BRI-STEEL MFG ASTM/ASME A/SA335 GR P22 NPS 36 SCH 30 (0.625 inchWT) SMLS
 HEAT BSM-2926 (PIPE # LENGTH MASS) 236.1 LB/FT NDE(UT) 650 PSI 2016/10 MADE IN CANADA.**

Product Details				Non-Destructive Testing										
Heat	Test Type	Product Size	Pieces	Length	Mass	Geiger	Res Mag.	Visual	UT	ET	HydroTest	End		
BSM-2926	Heat	NPS 36 SCH30 0.625inWT	2	DRL	lb/ft	µR/hr	Gauss	Insp.	OD	WT	ASTM E213	ASTM E309	650 psi/5s	Condition
					236.10	<5	<20	Pass	Pass	Pass	Pass	-	Pass	35° Bevel

Chemical Analysis (wt%)																	
Heat	Steelmaking Method	Analysis	C	Mn	P	S	Si	Cr	Cu	Mo	Ni	V	Ti	Nb	B	CE (IIW)	CE (CSA)
BSM-2926	Blast Furnace; EAF; Ladle Refining; Vacuum Degas; Fully Killed	Heat	0.12	0.48	0.010	0.002	0.26	2.27	0.02	0.92	0.03	-	-	-	-	-	-
		Product	0.10	0.47	0.009	0.001	0.23	2.32	0.02	0.96	0.03	-	-	-	-	-	-
		Product	0.11	0.47	0.010	0.002	0.23	2.32	0.03	0.96	0.03	-	-	-	-	-	-

Mechanical Properties									
Heat	Test Type	Microstructure	Hardness	Tension Test		Yield (Rt0.5)	Tensile (Rm)	Y/T	Elongation (A)
				HRBW	Flattening Test				
BSM-2926	Heat	Ferrite & Bainite	78	Pass	Pass	psi	psi		
				Pass	Pass	47,800	72,000	0.66	49
				Pass	Pass	47,800	71,000	0.66	50

Additional Details:
 ✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing in accordance with ASTM A335-2015a/ASME SA335-2015, and the purchase order requirements, and that the results meet the corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008, API Q1 and PED 2014/68/EU.

Mill Test Certificate approved by:

Kenton Dechant
 2016 Oct 31

- ✓ 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.
- ✓ No weld repairs have been performed on this product.

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