



Mill Test Certificate

Bri-Steel Manufacturing
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Product: Seamless Carbon Steel Pipe

Product Heat Number: BSM-2464

Product Size: NPS 36 STD

Production Date: Jul 09, 2015

Production Method: Hot Expansion

Product Heat Treatment: ThermoMechanical Formed

Certificate No.: MTR- 001875

Product Standards: ASME B36.10-2004, ASTM/ASME A106-2014/SA106-2013 Grade B/C NDE, A53-2012/SA53-2013 Grade B Type S, NACE MR0175-2009 MR0103-2012

Product Markings

NPS 36 STD 0.375 INCHWT SMLS 2015/07 NDE 790PSI

HEAT BSM-2464 (PIPE # LENGTH MASS) 142.7lb/ft ASTM/ASME A/SA106 GR B/C A/SA53 GR B NACE MR0175/MR0103 MADE IN CANADA



Product: Details						Non-Destructive Testing											
Heat	Test Type	Product Size	Pieces	Length	Mass lb/ft	Gelger µR/hr	Res. Mag. Gauss	Visual Insp.	OD	UT WT	UT ASTM E213	ET ASTM E309	HydroTest 790 Psi/ 5 s	End Condition			
BSM-2464	Heat	NPS 36 STD 0.375in. WT	3	DRL	142.7	<5	<20	Pass	Pass	Pass	Pass	Pass	Pass	Plain End			
Chemical Analysis (wt%)																	
Heat	Steelmaking Method	Test Type	C	Mn	P	S	Si	Cr	Cu	Mo	Ni	V	Ti	Nb	B	CE(IIW)	CE(CSA)
BSM-2464	Blast Furnace; EAF; Ladle Refining; Vacuum Degass; Fully Killed	Heat	0.17	1.21	0.016	0.004	0.29	0.03	0.01	0.01	0.01	0.050	0.001	0.001	0.0005	0.39	0.39
		Product	0.18	1.27	0.013	0.004	0.28	0.02	0.01	0.01	0.01	0.053	0.003	0.001	0.0003	0.41	0.41
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mechanical Properties																	
Heat	Test Type	Microstructure	Hardness	Flattening Test	Tension Test 2 in. GL		Yield (Rt0.5) psi	Tensile (Rm) psi	Y/T (Rt0.5/Rm)	Elongation (A) %							
BSM-2464	Heat	Ferrite & Pearlite	80 HRBW	Pass	Longitudinal; 1.5 in. x WT		52,000	71,500	0.73	42							

Additional Details:

✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing in accordance with ASTM/ASME A106-2014/SA106-2013, A53-2012/SA53-2013, and the purchase order requirements, and that the results meet the corresponding requirements. Bri-Steel Manufacturing is registered and certified to ISO-9001:2008 and API Q1.

✓ This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour Service, and NACE MR0103-2012 Section 2.1

✓ 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:

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