



Mill Test Certificate

Bri-Steel Manufacturing
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Product: Seamless Carbon Steel Pipe

Product Heat Number: BSM-1684

Product Size: NPS 14 TRUE 40

Production Date: Mar 04, 2014

Production Method: Hot Expansion

Product Heat Treatment: ThermoMechanical Formed

Certificate No.: MTR- 002062

Product Standards:

ASME B36.10M-2015, 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 14 TRUE 40 0.438 INCHWT SMLS 2014/03 NDE
HEAT BSM-1684 (PIPE # LENGTH MASS) 63.67lb/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	Geiger µR/hr	Res. Mag. Gauss	Visual Insp.	OD	UT WT	UT ASTM E213	ET ASTM E309	HydroTest	End Condition			
BSM-1684	Heat	NPS 14 TRUE 40 0.438in. WT	11	DRL	63.67	<5	<10	Pass	Pass	Pass	Pass	Pass	-	33° Bevel			
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-1684	Blast Furnace; EAF; Ladle Refining; Vacuum Degass; Fully Killed	Heat	0.18	0.91	0.012	0.012	0.23	0.03	0.06	0.01	0.04	-	-	-	0.0005	0.35	0.35
		Product	0.21	0.91	0.012	0.008	0.24	0.03	0.07	0.01	0.04	0.003	0.001	0.001	0.0003	0.37	0.38
Mechanical Properties																	
Heat	Test Type	Microstructure	Hardness	Flattening Test	Tension Test 2 in. GL	Yield (Rt0.5) psi	Tensile (Rm) psi	V/T (Rt0.5/Rm)	Elongation (A) %								
BSM-1684	Heat	Ferrite & Pearlite	77 HRBW	Pass	Longitudinal; 1.5 in. x WT	42,900	72,000	0.60	42								
Heat	Test Standard	Impact Test Sample Details	Temp °C	Impact Energy			% Shear			Lateral Expansion							
BSM-1684	-	-	-	J	J	J	AVG	%	%	%	AVG	mm	mm	mm	AVG		
				-	-	-	-	-	-	-	-	-	-	-			

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, API Q1, and PED 97/23/EC.

Mill Test Certificate approved by:

✓ 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.

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

T. Lam *Mar 12 12 16*