



Mill Test Certificate

Bri-Steel Manufacturing
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Product: Seamless Carbon Steel Pipe Product Heat Number: BSM-2606 Product Size: NPS 16 STD Production Date: Dec 16, 2015
 Production Method: Hot Expansion Product Heat Treatment: ThermoMechanical Formed Certificate No.: MTR- 002034
 Product Standards: ASME B36.10M-2015, ASTM/ASME A106-2014/SA106-2013 Grade B NDE, AS3-2012/SA53-2013 Grade B Type S, NACE MR0175-2009 MR0103-2012
 Product Markings: NPS 16 STD 0.375 INCHWT SMLS 2015/12 NDE 1000PSI
 HEAT BSM-2606 (PIPE # LENGTH MASS) 62.58lb/ft ASTM/ASME A/SA106 GR B 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	ET	HydroTest 1000 PSI/ 5 s	End Condition
BSM-2606	Heat	NPS 16 STD 0.375in. WT	9	DRL	62.58	<5	<20	Pass	Pass	Pass	Pass	Pass	Pass	31° Bevel

Heat	Steelmaking Method	Test Type	Chemical Analysis (wt%)															
			C	Mn	P	S	Si	Cr	Cu	Mo	Ni	V	Ti	Nb	B	CE(IIW)	CE(CSA)	
			Heat	Heat	Heat	Product	-	-	-	-	-	-	-	-	-	-	-	-
BSM-2606	Blast Furnace; EAF; Ladle Refining; Vacuum Degass; Fully Killed	Heat	0.22	0.57	0.019	0.004	0.24	0.04	0.01	0.01	0.01	0.01	0.01	0.002	0.001	0.001	0.0003	0.33
		Product	0.22	0.57	0.010	0.003	0.26	0.03	0.01	0.01	0.01	0.01	0.002	0.001	0.001	0.0002	0.32	0.34

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) %
					73 HRBW	Pass				
BSM-2606	Heat	Ferrite & Pearlite	73 HRBW	Pass						

Heat	Test Standard	Impact Test Sample Details	Temp °C	Impact Energy			% Shear			Lateral Expansion				
				J	J	J	%	%	%	AVG	mm	mm	mm	AVG
BSM-2606	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- 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, AS3-2012/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.
 - ✓ 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: *T. Lam* 1/27/2016

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