



# Mill Test Certificate

Bri-Steel Manufacturing Inc.  
2125-64 Avenue, Edmonton, AB Canada T6P 1Z4  
Tel: 001 (780) 469-6603  
Fax: 001 (780) 469-6986  
www.bri-steel.com

Product: Seamless Carbon Steel Pipe Product Heat Number: BSM-2438 Product Size: 30XS Production Date: Jun 17, 2015  
Production Method: Hot Expansion Product Heat Treatment: As-rolled Certificate No.: MTR- 001837  
Product Standards: ASME B36.10-2004, API 5L-45th Ed. Grade B/X42 PSL1, ASTM/ASME A106-2014/SA106-2013 Grade B NDE, A53-2012/SA53-2013 Grade B Type S, NACE MR0175-2009 MR0103-2012

Product Markings



<API & L/C No.> API SPEC 5L NPS 30 XS 0.500 INCHWT 157.5LB/FT GR B/X42 PSL1 SMLS 2015/06 NDE 1260PSI  
HEAT BSM-2438 (PIPE # LENGTH MASS) 157.5lb/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 $\mu$ R/hr	Res. Mag. Gauss	Visual Insp.	OD	UT WT	UT ASTM E213	ET ASTM E309	HydroTest 1260PSI/ 5 s	End Condition					
BSM-2438	Heat	NPS 30 XS 0.500in. WT	1	DRL	157.5	<5	<20	Pass	Pass	Pass	Pass	Pass	Pass	32.5" 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)		
			Heat	0.19	0.86	0.009	0.002	0.24	0.04	0.06	0.01	0.03	0.001	0.001	0.001	0.0004	-	-	
			Product	0.20	0.84	0.011	0.004	0.23	0.04	0.07	0.01	0.03	0.004	0.001	0.001	0.0003	0.36	0.36	
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Mechanical Properties																			
Heat	Test Type	Microstructure	Hardness	Flattening Test	Tension Test		Yield (Rt0.5) psi	Tensile (Rm) psi	V/T (Rt0.5/Rm)	Elongation (A) %									
					2 in. GL	1.5 in. x WT													
BSM-2438	Heat	Ferrite & Pearlite	74 HRBW	Pass	Longitudinal, 1.5 in. x WT		43,000	69,500	0.62	45									
Heat	Test Standard	Impact Test Sample Details	Temp °C	Impact Energy					% Shear			Lateral Expansion							
				J	J	J	AVG	%	%	%	AVG	mm	mm	mm	AVG				
				-	-	-	-	-	-	-	-	-	-	-	-				
BSM-2438			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

## Additional Details:

✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing in accordance with API 5L-45th Ed., ASTM/ASME A106-2014/SA106-2013 Grade B 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-2009 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* June 18/2015

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