



Mill Test Certificate

Bri-Steel Manufacturing
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Product: Seamless Carbon Steel Pipe Product Heat Number: BSM-2479 Product Size: NPS 30 STD Production Date: Jul 22, 2015
Production Method: Hot Expansion Product Heat Treatment: ThermoMechanical Formed Certificate No.: MTR- 001896
Product Standards: ASME B36.10-2004, ASTM/ASME A106-2014/SA106-2013 Grade B NDE, A53-2012/SA53-2013 Grade B Type S, NACE MR0175-2009 MR0103-2012

Product Markings



NPS 30 STD 0.375 INCHWT SMLS 2015/07 NDE 600PSI
HEAT BSM-2479 (PIPE # LENGTH MASS) 118.6lb/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 ASTM E213	ET ASTM E309	HydroTest 600PSI/ 5 s	End Condition
BSM-2479	Heat	NPS 30 STD 0.375in. WT	1	DRL	118.6	<5	<10	Pass	Pass	Pass	Pass	Pass	Pass	Plain End

Heat		Steelmaking Method	Test Type	C	Mn	P	S	Si	Cr	Cu	Mo	Ni	V	Ti	Nb	B	CE(IIW)	CE(CSA)
BSM-2479	Blast Furnace; EAF; Ladle Refining; Vacuum Degass; Fully Killed		Heat	0.17	0.85	0.008	0.005	0.22	0.04	0.07	0.01	0.04	-	-	-	0.0003	0.17	0.08
			Product	0.20	0.86	0.009	0.004	0.21	0.05	0.08	0.01	0.03	0.003	0.001	0.001	0.0002	0.36	0.36

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) %
Heat	Heat	Ferrite & Pearlite	70 HRBW	Pass	Longitudinal: 1.5 in. x WT	42,400	64,000	0.66	45
BSM-2479									

Heat	Test Standard	Impact Test Sample Details	Temp °C	Impact Energy					% Shear				Lateral Expansion			
				J	J	J	AVG	%	%	%	AVG	mm	mm	mm	mm	AVG
BSM-2479	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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:

2015 July 29

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