

Mill Test Certificate

Bri-Steel Manufacturing Inc.

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www.brichemsteel.com

Product Size: NPS 18 STD Production Date: July 8, 2013

Production Method: Hot Expansion Product Heat Treatment: As-rolled

Product:

Seamless Carbon Steel Pipe

Product Heat Number:

BSM-1053

Product Standards: ASME B36.10-2004, API 5L-44th Ed. Grade B PSL1, ASTM/ASME A/SA106-2011 Grade B/C NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009, MR0103-2010

Product Markings: BRI-STEEL MFG <API> 5L-0898 API 5L GR B PSL1 ASTM/ASME A/SA106 GR B/C A/SA53 GR B NPS 18 STD 0.375 inchWT HEAT BSM-1053 (PIPE # LENGTH MASS) 70.59lb/ft NDE 1000 PSI SMLS NACE MR0175 2013/07 MADE IN CANADA.

<u></u>	Т		Т
BSM-1053	Heat		
Heat	Test Type		
NPS 18 STD 0.375 in.WT	Product Size	*	Product Detail
ω	Pieces		S
DRL	Length		
70.59	lb/ft	Mass	
G	μR/hr	Geiger	
<20	Gauss	Res.Mag.	
Pass	Insp.	Visual	
Pass	OD		Non-[
Pass	WT	TU	Destructive T
Pass	ASTM E213	TU	esting
Pass	ASTM E309	曰	
Pass	STM E309 1000 psi/5s	HydroTest	
32.5° Bevel	Condition	End	

		Т		Т
	BSM-1053		:	
Vacuum Degas; Fully Killed	Blast Furnace; EAF; Ladle Refining;	Steelmaking Method		
Product	Heat	Analysis		
0.21	0.20	0		
0.91	0.91	Mn		
0.015	0.010	P	8	
0.015 0.011 0.26	0.010	S		Chemical
0.26	0.25	Si		Chemical Analysis (wt%)
0.04	0.04	오		(wt%)
0.08	0.06	U.		
0.01	0.01	Mo		
0.04	0.04	Z.		
0.004		<		
0.001		=		
0.001	1	Nb		
0.0003	0.0004	В		
0.38		(IIW)	Œ	
0.39		(CSA)	Œ	

	BSM-1053		Heat		
	,		Standard	Test	
	1		Sample Details	Impact Test	
	ı		°C	Temp	
	1		_		
			_	Impact	
	1		_	Energy	
			AVG		
	1		%		
			%	% Shear	
			%	lear	
		10000000000000	AVG		
	1		mm		
5000	,		mm	Lateral E	
	,		mm	xpansion	
	ı		AVG		

Additional Details:

- and that the results meet the corresponding requirements. Inc. in accordance with API 5L-44th Ed., ASTM/ASME A/SA106-2011, A/SA53-2012, and the purchase order requirements, We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing
- Service, and NACE MR0103-2010 Section 2.1. √ This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour
- No weld repairs have been performed on this product.
- This product has not come into contact with mercury during the Bri-Steel Manufacturing processes.
- $\checkmark~$ This certificate represents a quality control system that is compliant with EN 10204:2004 Type 3.1.

Mill Test Certificate approved by:

2013 201 10

my Land Coll

Paul Sowden, T.T.

Assistant QA Manager