

Seamless Carbon Steel Pipe

Mill Test Certificate

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Product Heat Number: BSM-1583 Product Size: 20XS Production Date: Jan 29, 2014

Production Method: **Hot Expansion** Product Heat Treatment: As-rolled Certificate No.: MTR- 001085

Product Standards: ASME B36.10-2004, API 5L-45th Ed. Grade B/X42 PSL1, ASTM/ASME A/SA106-2013 Grade B/C NDE, A/SA53-2012 Grade B Type S, NACE MR0175-2009 MR0103-2010

| API & L/C No. > API SPEC 5L NPS 20 XS 0.500 INCHWT GR B/X42 PSL1 SMLS 2014/01 NDE 1890PSI

_	Para Caraca		Product: Details	1889		Almania				No	Non-Destructive Testing	ive Testing			
	Heat	Test Type	Product Size	Pieces	Length	Mass	Geiger	Res. Mag.	Visual	OD	TU	TU	ET	HydroTest	End
						lb/ft	μR/hr	Gauss	insp.	70.076	¥,T	ASTM E213	ASTM	ASTM E213 ASTM 1890 PSI/ 5 s Condition	Condition

BSM-1583

Heat

NPS 20 XS 0.500in. WT

2

DRL

104.1

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10

Pass

Pass

Pass

Pass

Pass

Pass

34° Bevel

Product Markings

	BSM-1583	Heat	
	Blast Furnace; EAF; Ladle Refining; Vacuum Degas: Fully Killed	Steelmaking Method	
Product	Heat	Test Type	
t 0.22	0.18	С	
0.90	0.83	Mn	
0.023	0.017	P	
0.009	0.014	S	Chemical
0.24	0.23	Si	Chemical Analysis (wt%)
0.07	0.07	Cr	wt%)
0.01	0.01	Си	
0.00		Mo	
0.04	0.04	Ni	
0.003		٧	
0.002		Ti	
0.001		Nb	
0.0003		В	
0.39	1	CE(IIW)	
0.39	1	CE(CSA)	

BSM-1583 Heat Ferrite & Pearlite 78 HRBW Pass Longitudinal; 38.1 mm x WT 45,300 73,500 0.62	50mm GL psi (Rt0.5/Rm)	Heat Test Type Microstructure Hardness Flattening Test Tension Test Yield (RtO.5) Tensile (Rm) Y/T Ele	Mechanical Properties
0.62	(Rt0.5/Rm)	Т/А	
42	%	Elongation (A)	

BSM-1583		Heat
1	Standard	Test
ı	Sample Details	Impact Test
	°C	Temp
1	J	
	J	Impact
1	J	Energy
-	AVG	
-	%	
1	%	% Shear
	%	ıear
ī	AVG	
•	mm	
	mm	Lateral Expansion
	mm	pansion
-	AVG	

Additional Details:

- ✓ We hereby certify that this pipe product was manufactured, sampled, tested and inspected by Bri-Steel Manufacturing Inc. in accordance with API 5L-45th Ed., ASTM/ASME A/SA106-2013 Grade B/C A/SA53-2012, and the purchase order requirements, and that the results meet the corresponding requirements.
- √ This pipe product meets the sour service requirements of NACE MR0175/ISO 15156-2:2009 Annex A2 for Region 3 Sour Service-2009 NACE MR0103-2010 Section 2.1
- ✓ No weld repairs have been performed on this product.
- \checkmark 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:

SOLY WAR

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