











6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
PO Box 2388
Sulphur, LA
PO: P0228242-01

Quantity	Product	Heat Code	Heat Treatment Info													Steel Mill					
48	2" XS LR 90° Elbow	A184825	Hot Formed													PLYMOUTH TUBE CO. A 234 WPB-13 Dimensional Specification: B16.9					
<u>C</u>	<u>Mn</u>	<u>P</u>	<u>S</u>	<u>Si</u>	<u>Cu</u>	<u>Ni</u>	<u>Cr</u>	<u>Mo</u>	<u>V</u>	<u>Al</u>	<u>Ti</u>	<u>B</u>	<u>Cb</u>	<u>Tens.</u>	<u>Yield</u>	<u>Elong</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>		
0.17	0.68	0.008	0.010	0.25	0.18	0.09	0.12	0.030	0.00	0.020	0.000	-	0.000	68,900	39,900	27.00	-	162	165		
CE (IIW): 0.332																					
72	4" XS LR 90° Elbow	A185795	Hot Formed													PLYMOUTH TUBE CO. A 234 WPB-13 Dimensional Specification: B16.9					
<u>C</u>	<u>Mn</u>	<u>P</u>	<u>S</u>	<u>Si</u>	<u>Cu</u>	<u>Ni</u>	<u>Cr</u>	<u>Mo</u>	<u>V</u>	<u>Al</u>	<u>Ti</u>	<u>B</u>	<u>Cb</u>	<u>Tens.</u>	<u>Yield</u>	<u>Elong</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>		
0.20	1.07	0.013	0.008	0.34	0.18	0.07	0.13	0.040	0.05	0.022	0.001	-	0.001	85,000	39,900	32.00	72.00	162	156		
CE (IIW): 0.439																					
24	1 1/4" Std LR 45° Elbow	A180982	Hot Formed													PLYMOUTH TUBE CO. A 234 WPB-13 Dimensional Specification: B16.9					
<u>C</u>	<u>Mn</u>	<u>P</u>	<u>S</u>	<u>Si</u>	<u>Cu</u>	<u>Ni</u>	<u>Cr</u>	<u>Mo</u>	<u>V</u>	<u>Al</u>	<u>Ti</u>	<u>B</u>	<u>Cb</u>	<u>Tens.</u>	<u>Yield</u>	<u>Elong</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>		
0.17	0.64	0.006	0.009	0.26	0.17	0.06	0.10	0.020	0.00	0.021	0.001	-	0.001	73,000	39,900	31.40	-	159	161		
CE (IIW): 0.316																					
24	2" XS LR 45° Elbow	A184826	Hot Formed													PLYMOUTH TUBE CO. A 234 WPB-13 Dimensional Specification: B16.9					
<u>C</u>	<u>Mn</u>	<u>P</u>	<u>S</u>	<u>Si</u>	<u>Cu</u>	<u>Ni</u>	<u>Cr</u>	<u>Mo</u>	<u>V</u>	<u>Al</u>	<u>Ti</u>	<u>B</u>	<u>Cb</u>	<u>Tens.</u>	<u>Yield</u>	<u>Elong</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>		
0.17	0.82	0.010	0.013	0.21	0.18	0.09	0.13	0.040	0.00	0.020	0.000	-	0.001	68,300	39,900	26.50	-	165	165		
CE (IIW): 0.359																					

We hereby certify that the material meets the following

- All fittings and flanges meet NACE MRO-175/ISO 15156-Latest Revision.
- All fittings and flanges meet NACE MRO-103 - Latest Revision.
- All non high-yield fittings meet the requirements of ASTM A-234 WPB (AND SA-234).
- All fittings are seamless except as noted;
- All non-high yield flanges meet the requirements of ASTM A-105 (AND SA-105)
- Starting Material Seamless Pipe for elbows, tees and reducers;
- Plate for caps and welded fittings.
- Bars, Billets or Blooms for flanges and certain caps and tees.
- Ladle chemistry reported.

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Richard Purpura
Quality Assurance Department
10/5/2021



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Report

We hereby certify that the material meets the following:

- ISO 9001:2015 CERTIFIED MANUFACTURER
- Test Results herein are correct as contained in test records retained by the company in accordance with EN 10 204 Para 3.1 in accordance with PED Annex 1, Paragraph 4.3 of 2014/68/EU
- No Weld Repair Performed. No Lead Content. No Mercury Content.
- Knowingly making false, fictitious, or fraudulent statements on a MTR may result in legal liability.
- Material has been manufactured/supplied and tested in accordance with the most current version of the Weldbend Quality System Program

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Cert #308577