








6600 South Harlem Avenue
Argo, IL 60501-1930


Material Test Report

WELDBEND CORPORATION
PO Box 2388
Sulphur, LA
PO: P0233154-01

Quantity		Product	Heat Code										Heat Treatment Info			Steel Mill					
20		2" XS LR 45° Elbow	107387										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>		
0.18	0.75	0.006	0.017	0.23	0.16	0.05	0.07	0.032	0.00	0.016	-	-	0.003	68,000	39,900	56.00	-	141	141		
CE (IIW): 0.340																					

Quantity		Product	Heat Code										Heat Treatment Info			Steel Mill					
72		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																					

Quantity		Product	Heat Code										Heat Treatment Info			Steel Mill					
6		10" Class 150 Welding Neck StdB RF	OKK										Hot Formed			GERDAU AMERISTEEL					
																A 105-18 Dimensional Specification: B16.5					
<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>		
0.18	1.18	0.009	0.021	0.21	0.21	0.10	0.21	0.040	0.01	0.021	0.001	0.0003	0.004	79,500	39,900	30.80	62.20	152	152		
CE (IIW): 0.449 CE (PCM): 0.274																					

Quantity		Product	Heat Code										Heat Treatment Info			Steel Mill					
13		5" Class 150 Slip-on RF	1A357										Hot Formed			CMC STEEL					
																A 105-18 Dimensional Specification: B16.5					
<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>		
0.16	1.08	0.012	0.029	0.23	0.26	0.10	0.06	0.026	0.00	0.001	0.000	0.0000	0.000	75,300	39,900	32.30	65.40	150	149		
CE (IIW): 0.381 CE (PCM): 0.241																					

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

Richard Purpura
Quality Assurance Department
5/27/2022



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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