










6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
PO Box 2388
Sulphur, LA
PO: P0230978-01

Quantity		Product										Heat Code					Heat Treatment Info					Steel Mill		
24		2" XS LR 90° 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																								
24		3" XS LR 90° Elbow										A191491					Hot Formed					PLYMOUTH TUBE CO. A 234 WPB-15 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	1.04	0.008	0.012	0.32	0.15	0.07	0.11	0.030	0.05	0.017	0.001	-	0.002	82,000	39,900	35.00	69.00	156	155					
CE (IIW): 0.426																								
8		6" XS LR 90° Elbow										JC0187					Hot Formed					V & M STAR A 234-18 WPB 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	1.03	0.013	0.007	0.27	0.19	0.08	0.13	0.020	0.06	0.042	0.003	0.0003	0.000	79,900	39,900	37.60	64.20	158	156					
CE (IIW): 0.431 CE (PCM): 0.286																								
6		3" XS SR 90° Elbow										217058					Hot Formed					JFE STEEL CORP. 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	0.53	0.021	0.010	0.23	0.01	0.01	0.04	0.000	0.00	-	-	-	-	67,297	39,900	37.40	-	134	127					
CE (IIW): 0.298																								

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
3/28/2022



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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