



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				
36	1½" Std LR 90° Elbow	A175678	Hot Formed													MICHIGAN SEAMLESS 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	0.77	0.008	0.017	0.21	0.14	0.07	0.11	0.040	0.00	0.021	-	-	0.001	64,202	39,900	52.10	-	136	138	
CE (IIW): 0.353																				



Quantity	Product	Heat Code	Heat Treatment Info													Steel Mill				
24	3" Std LR 90° Elbow	A220400	Hot Formed													MICHIGAN SEAMLESS 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>	
0.17	0.73	0.007	0.015	0.24	0.17	0.06	0.10	0.020	0.00	0.023	0.000	0.0000	0.000	70,400	39,900	26.00	-	157	156	
CE (IIW): 0.331 CE (PCM): 0.230																				



Quantity	Product	Heat Code	Heat Treatment Info													Steel Mill				
36	4" Std LR 90° Elbow	MB0076	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>	
0.19	1.06	0.010	0.004	0.27	0.06	0.04	0.17	0.020	0.06	0.037	0.004	0.0001	0.000	81,300	39,900	26.80	-	164	162	
CE (IIW): 0.423 CE (PCM): 0.272																				



Quantity	Product	Heat Code	Heat Treatment Info													Steel Mill				
12	6" Std LR 90° Elbow	MA0015	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	1.04	0.009	0.005	0.26	0.14	0.05	0.13	0.020	0.06	0.030	0.003	0.0002	0.000	81,000	39,900	25.00	-	180	178	
CE (IIW): 0.427 CE (PCM): 0.283																				



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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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