



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
PO Box 2388
Sulphur, LA
PO: P0234407-01

Quantity	Product	Heat Code	Heat Treatment Info																	Steel Mill
8	6" Std LR 90° Elbow	MF0019	Hot Formed																	V & M STAR
<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>	A 234-18 WPB Dimensional Specification: B16.9
0.19	1.03	0.012	0.003	0.28	0.19	0.06	0.12	0.030	0.06	0.041	0.005	0.0002	0.000	83,000	39,900	26.60	-	175	169	
CE (IIW): 0.420																				
CE (PCM): 0.276																				
36	2" XS LR 90° Elbow	A180982	Hot Formed																	PLYMOUTH TUBE CO.
<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>	A 234 WPB-13 Dimensional Specification: B16.9
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	71,700	39,900	24.10	-	159	159	
CE (IIW): 0.316																				
2	3" XS SR 90° Elbow	217058	Hot Formed																	JFE STEEL CORP.
<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>	A 234 WPB-13 Dimensional Specification: B16.9
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																				
12	3" XS Straight Tee	01505	Heat Treat: Normalized																	JFE STEEL CORP.
<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>	A 234-18 WPB Dimensional Specification: B16.9
0.19	0.85	0.015	0.004	0.26	0.00	0.01	0.01	0.000	0.00	-	-	0.0000	-	69,600	39,900	33.80	-	133	129	
CE (IIW): 0.334																				
CE (PCM): 0.242																				

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
6/30/2022



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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