



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							
6	3" XS Straight Tee	19N521	Heat Treat: Normalized										NIPPON							
<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
0.11	1.31	0.010	0.001	0.23	0.02	0.02	0.12	0.010	0.01	-	-	-	< 0.001	65,900	39,900	36.00	-	128	130	WPB
CE (IIW): 0.359																				

Quantity	Product	Heat Code	Heat Treatment Info										Steel Mill							
12	4" x 2" Std Concentric Reducer	11754	Heat Treat: Normalized										US STEEL							
<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
0.18	0.95	0.005	0.003	0.21	0.12	0.07	0.08	0.020	0.00	0.030	0.002	0.0002	0.003	71,000	39,900	29.50	-	137	141	WPB
CE (IIW): 0.371																				
CE (PCM): 0.248																				

Quantity	Product	Heat Code	Heat Treatment Info										Steel Mill							
12	1" Std LR 90° Elbow	A175250	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
0.18	0.70	0.008	0.013	0.25	0.11	0.08	0.10	0.030	0.00	0.020	0.003	-	0.000	69,600	39,900	45.00	-	151	152	WPB
CE (IIW): 0.336																				

Quantity	Product	Heat Code	Heat Treatment Info										Steel Mill							
24	1¼" XS LR 90° Elbow	J7L1142	Hot Formed										NIPPON							
<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
0.11	1.32	0.015	0.001	0.24	0.02	0.02	0.12	0.010	0.01	-	0.010	0.0001	< 0.001	76,900	39,900	30.40	-	162	162	WPB
CE (IIW): 0.361																				
CE (PCM): 0.193																				

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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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