



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
PO Box 2388
Sulphur, LA
PO: P0229257-01

Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
12	2½" Std LR 90° Elbow	A216417	Hot Formed	PLYMOUTH TUBE CO. 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	0.68	0.008	0.019	0.24	0.13	0.06	0.12	0.030	0.00	0.019	0.000	-	0.000	68,000	39,900	30.40	-	138	139

CE (IIW): 0.326



Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
100	1½" XS LR 90° Elbow	307646	Hot Formed	MAXHUETTE 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>
0.13	0.79	0.011	0.001	0.27	0.12	0.13	0.20	0.030	0.00	0.026	0.001	0.0002	0.000	81,200	39,900	24.50	-	176	180

CE (IIW): 0.324

CE (PCM): 0.200



Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
6	3" Std Straight Tee	22N139	Heat Treat: Normalized	NIPPON 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>
0.11	1.24	0.017	0.000	0.28	0.01	0.02	0.14	0.010	0.00	-	0.010	0.0002	0.002	71,300	39,900	30.70	-	153	152

CE (IIW): 0.349

CE (PCM): 0.191



Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
16	3" Class 150 Welding Neck XSB RF	3DD96	Hot Formed	RIVA 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>
0.19	1.05	0.009	0.008	0.24	0.19	0.08	0.15	0.010	0.00	0.032	0.020	0.0001	0.001	77,700	39,900	30.70	63.90	142	142

CE (IIW): 0.410

CE (PCM): 0.265



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

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