



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
6600 S HARLEM AVE
ARGO, IL 60501
PO: A223738

Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
1	3" Std LR 90° Elbow	A223738	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	0.72	0.006	0.009	0.22	0.17	0.07	0.08	0.020	0.01	0.019	0.001	0.0000	0.002	71,200	50,000†	23.80	-	159	160

CE (IHW): 0.327

CE (PCM): 0.229



- 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.

† This indicates that the reported yield is capped at 50,000 psi.

Richard Purpura

Richard Purpura
Quality Assurance Department
2/7/2023



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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 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
 - MTR issued in accordance with EN 10204 paragraph 3.1

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Cert #352276