



6600 South Harlem Avenue  
Argo, IL 60501-1930

WELDBEND CORPORATION  
PO Box 2388  
Sulphur, LA  
PO: P0230242-01

# Material Test Report

Steel Mill

Heat Treatment Info

Heat Code

Product

Quantity

**MICHIGAN SEAMLESS**  
A 234 WPB-13  
Dimensional Specification: B16.9

1½" Std LR 90° Elbow

**Hot Formed**

**A175678**

Yield Elon  
39,900 52.10

ROA BHN BHN2  
- 136 138

Tens. Cb B  
64,202 0.001 -

V Al II  
0.00 0.021 -

Mo Cr  
0.040 0.11

Ni Cu Si  
0.07 0.14 0.21

S P  
0.017 0.008

Mn C  
0.77 0.18

**60**

**CE (IIV): 0.353**

**WPB**

**NIPPON**

A234-11  
Dimensional Specification: B16.9

**Hot Formed**

**J3L2334**

Yield Elon  
39,900 50.00

ROA BHN BHN2  
- 134 136

Tens. Cb B  
68,023 0.000 -

V Al II  
0.00 0.005 -

Mo Cr  
0.020 0.04

Ni Cu Si  
0.02 0.01 0.18

S P  
0.006 0.013

Mn C  
0.64 0.18

**24**

**CE (IIV): 0.301**

**WPB**

**NIPPON**

A 234 WPB-13  
Dimensional Specification: B16.9

**Hot Formed**

**J7L1142**

Yield Elon  
39,900 30.40

ROA BHN BHN2  
- 162 162

Tens. Cb B  
76,900 < 0.001 0.0001

V Al II  
0.01 0.010 0.010

Mo Cr  
0.010 0.12

Ni Cu Si  
0.02 0.02 0.24

S P  
0.001 0.015

Mn C  
1.32 0.11

**24**

**CE (IIV): 0.361**  
**CE (PCM): 0.193**

**WPB**

**MICHIGAN SEAMLESS**

A 234 WPB-13  
Dimensional Specification: B16.9

**Hot Formed**

**78628**

Yield Elon  
39,900 42.20

ROA BHN BHN2  
62.40 136 136

Tens. Cb B  
69,600 0.001 0.0000

V Al II  
0.00 0.020 0.001

Mo Cr  
0.010 0.12

Ni Cu Si  
0.05 0.16 0.17

S P  
0.019 0.007

Mn C  
0.73 0.17

**24**

**CE (IIV): 0.332**  
**CE (PCM): 0.228**

**WPB**

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  
1/14/2022



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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

Generated by mhammer@weldbend.com

**Cert #316262**