



6600 South Harlem Avenue  
Argo, IL 60501-1930

# Material Test Report

SUPERIOR SUPPLY & STEEL  
318 CITYS SERVICE HWY  
SULPHUR, LA 70663  
PO: P0194254-01

**Quantity**      **Product**      **Heat Code**      **Heat Treatment Info**      **Steel Mill**

<b>5</b>	<b>10" XS LR 90° Elbow</b>										<b>150216</b>	<b>Hot Formed</b>	<b>V &amp; M STAR</b>							
<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Cu</b>	<b>Ni</b>	<b>Cr</b>	<b>Mo</b>	<b>V</b>	<b>Al</b>	<b>Ti</b>	<b>B</b>	<b>Cb</b>	<b>Tens.</b>	<b>Yield</b>	<b>Elon</b>	<b>ROA</b>	<b>BHN</b>	<b>BHN2</b>	
0.21	1.03	0.010	0.005	0.25	0.15	0.05	0.12	0.010	0.06	0.032	0.003	0.0002	0.000	84,600	39,900	34.00	-	166	168	
<b>CE (IIW): 0.432</b>																				
<b>CE (PCM): 0.292</b>																				
<b>A 234 WPB-13</b>										<b>Dimensional Specification: B16.9</b>										
<b>WPB</b>										<b>WPB</b>										

<b>15</b>	<b>1 1/2" XS LR 45° Elbow</b>										<b>A173891</b>	<b>Hot Formed</b>	<b>PLYMOUTH TUBE CO.</b>							
<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Cu</b>	<b>Ni</b>	<b>Cr</b>	<b>Mo</b>	<b>V</b>	<b>Al</b>	<b>Ti</b>	<b>B</b>	<b>Cb</b>	<b>Tens.</b>	<b>Yield</b>	<b>Elon</b>	<b>ROA</b>	<b>BHN</b>	<b>BHN2</b>	
0.17	0.64	0.008	0.014	0.25	0.19	0.08	0.12	0.030	0.00	0.022	0.001	-	0.000	71,500	39,900	36.00	68.00	110	110	
<b>CE (IIW): 0.325</b>																				
<b>A 234 WPB-13</b>										<b>Dimensional Specification: B16.9</b>										
<b>SEGMENT</b>										<b>WPB</b>										

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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**Mark Torres**  
Quality Assurance Department  
11/1/2018



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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 97/23/EC, 7/2
- 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 Weldbend Quality System Program 09/08/17 Rev. 4

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