



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
PO Box 2388
Sulphur, LA
PO: P0230978-01

Quantity		Product										Heat Code					Heat Treatment Info					Steel Mill	
8		6" XS Straight Tee										19N376					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>Elon</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>	A 234 WPB-13 Dimensional Specification: B16.9			
0.11	1.25	0.014	0.001	0.28	0.02	0.02	0.12	0.010	0.01	-	0.010	0.0001	< 0.001	67,300	39,900	39.80	-	133	134	WPB			
CE (IIW): 0.349																							
CE (PCM): 0.191																							

Quantity		Product										Heat Code					Heat Treatment Info					Steel Mill	
24		4" Std Cap										21N283					Heat Treat: Normalized					NORTH STAR BLUESCOPE	
<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>Elon</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>	A 234-18 WPB Dimensional Specification: B16.9			
0.22	0.92	0.015	0.002	0.24	0.12	0.04	0.08	0.010	0.00	0.030	0.002	0.0001	0.000	79,500	39,900	28.30	-	141	146	WPB			
CE (IIW): 0.402																							
CE (PCM): 0.286																							

Quantity		Product										Heat Code					Heat Treatment Info					Steel Mill	
24		2" x 1" XS Concentric Reducer										556Bn					Heat Treat: Normalized					BENTELER	
<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>Elon</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>	A 105-18 Dimensional Specification: B16.9			
0.17	1.00	0.013	0.003	0.29	0.14	0.06	0.17	0.030	0.00	-	0.002	0.0003	0.000	72,000	39,900	33.00	-	157	157	A 105			
CE (IIW): 0.390																							
CE (PCM): 0.250																							

Quantity		Product										Heat Code					Heat Treatment Info					Steel Mill	
6		8" x 6" XS Concentric Reducer										360BN					Heat Treat: Normalized					V & M STAR	
<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>Elon</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>	A 234-18 WPB Dimensional Specification: B16.9			
0.18	0.84	0.010	0.003	0.26	0.25	0.07	0.12	0.020	0.00	-	0.003	0.0002	0.000	73,500	39,900	32.30	-	156	156	WPB			
CE (IIW): 0.369																							
CE (PCM): 0.253																							

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
3/28/2022



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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 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