



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		
13		4" XS LR 45° Elbow										21N374					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>	A234-17 WPB Dimensional Specification: B16.9				
0.11	1.24	0.014	0.001	0.29	0.01	0.02	0.11	0.010	0.00	-	0.009	0.0001	0.000	69,900	39,900	34.60	-	153	151					
CE (IIW): 0.343																								
CE (PCM): 0.189																								

Quantity		Product										Heat Code					Heat Treatment Info					Steel Mill		
6		6" Std Cap										21N386					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				
0.21	0.92	0.014	0.005	0.26	0.10	0.03	0.09	0.010	0.00	0.030	0.001	0.0000	0.000	79,300	39,900	27.90	-	159	160					
CE (IIW): 0.392																								
CE (PCM): 0.276																								

Quantity		Product										Heat Code					Heat Treatment Info					Steel Mill		
24		4" x 3" XS Concentric Reducer										694BN					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				
0.21	0.69	0.006	0.006	0.20	0.19	0.07	0.10	0.040	0.00	0.027	0.002	0.0003	0.000	74,400	39,900	28.80	-	155	154					
CE (IIW): 0.371																								
CE (PCM): 0.271																								

Quantity		Product										Heat Code					Heat Treatment Info					Steel Mill		
28		6" Class 150 Welding Neck StdB RF										BA6					Hot Formed					CMC STEEL		
<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: B16.5				
0.20	1.04	0.010	0.012	0.23	0.23	0.09	0.05	0.025	0.00	0.003	0.001	0.0002	0.001	81,600	39,900	27.50	52.40	157	156					
CE (IIW): 0.410																								
CE (PCM): 0.278																								

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