



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
PO Box 2388
Suiphur, LA
PO: P0224349-01

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

6	6" Std Straight Tee	CA374	Heat Treat: Normalized	SUMITOMO																
<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>	<u>Dimensional Specification: B16.9</u>
0.20	0.83	0.017	0.004	0.21	0.01	0.02	0.04	0.010	0.00	-	-	-	0.000	72,300	39,900	40.10	-	142	144	
CE (IIW): 0.350																				

6	3" XS Straight Tee	19N518	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>Elong</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>	<u>Dimensional Specification: B16.9</u>
0.11	1.31	0.010	0.001	0.23	0.02	0.02	0.12	0.010	0.01	-	-	-	<0.001	65,900	39,900	36.00	-	132	130	
CE (IIW): 0.359																				

12	4" Std Cap	21N61	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>Elong</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>	<u>Dimensional Specification: B16.9</u>
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	80,500	39,900	23.20	-	165	165	
CE (IIW): 0.402																				
CE (PCM): 0.286																				

12	6" x 5" XS Concentric Reducer	609AN	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>Elong</u>	<u>ROA</u>	<u>BHN</u>	<u>BHN2</u>	<u>Dimensional Specification: B16.9</u>
0.20	0.70	0.011	0.006	0.23	0.17	0.06	0.06	0.020	0.00	-	0.001	-	0.000	72,900	39,900	32.00	-	150		
CE (IIW): 0.348																				

We hereby certify that the material meets the following:

- All fittings and flanges meet NACE MR0-175/ISO 15156-Latest Revision.
- All fittings and flanges meet NACE MR0-103 - 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 Stainless Steel 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.

Richard Purpura
Quality Assurance Department
4/26/2021



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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/72
- No Yield 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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