



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
PO Box 2388
Sulphur, LA
PO: P0236064-01

Quantity **10** Product **3" XSLR 45° Elbow**

Heat Code **A216472**

Heat Treatment Info

Hot Formed

Steel Mill

PLYMOUTH TUBE CO.

A 234-18 WPB
Dimensional Specification: B16.9



SEGM
WPB

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.20	1.10	0.012	0.007	0.33	0.18	0.07	0.14	0.030	0.05	0.023	0.001	-	0.000	88,000	39,900	21.60	-	188	191
CE (IW): 0.445																			

12

3" Std Straight Tee

22N198

Heat Treat: Normalized

V & M STAR

A 234-18 WPB
Dimensional Specification: B16.9



WPB

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.20	0.67	0.005	0.007	0.21	0.18	0.08	0.09	0.030	0.00	0.028	0.002	0.0003	0.000	75,800	39,900	30.00	-	160	165
CE (IW): 0.353																			
CE (PCM): 0.259																			

6

2" XS Straight Tee

19N427

Heat Treat: Normalized

NIPPON

A 234 WPB-15
Dimensional Specification: B16.9



WPB

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.11	1.27	0.015	0.003	0.24	0.03	0.02	0.11	0.010	0.01	-	0.010	0.0002	<0.001	67,400	39,900	29.20	-	150	150
CE (IW): 0.351																			
CE (PCM): 0.191																			

12

4" x 3" Std Concentric Reducer

752BN

Heat Treat: Normalized

BENTELER

A 234-18 WPB
Dimensional Specification: B16.9



WPB

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.18	1.04	0.011	0.001	0.28	0.16	0.06	0.11	0.020	0.01	-	0.003	0.0003	0.003	74,900	39,900	29.90	-	165	162
CE (IW): 0.395																			
CE (PCM): 0.259																			

- We hereby certify that the material meets the following:
- All fittings and flanges meet NACE MR0175/ISO 15156-Latest Revision.
 - All fittings and flanges meet NACE MR0103 - 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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Cert #341353

Richard Purpura

Richard Purpura
Quality Assurance Department

10/13/2022



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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 PED Annex 1, Paragraph 4.3 of 2014/68/EU
 - No Weld Repair Performed. No Lead Content. No Mercury Content.
 - Knowledgeably making false, injurious, 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
 - MTR issued in accordance with EN 10204 paragraph 3.1

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