



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

SUPERIOR SUPPLY & STEEL
318 CITY SERVICE HWY
SULPHUR, LA 70663
PO: P0211337-01

Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
32	6" XS LR 90° Elbow	IK0196	Hot Formed	V & M STAR															
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.20	1.03	0.009	0.004	0.27	0.12	0.04	0.12	0.010	0.06	0.035	0.003	0.0003	0.000	77,800	39,900	40.10	63.00	147	151
CE (IIW): 0.420																			
CE (PCM): 0.281																			

Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
60	4" XS LR 90° Elbow	A185795	Hot Formed	PLYMOUTH TUBE CO.															
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.20	1.07	0.013	0.008	0.34	0.18	0.07	0.13	0.040	0.05	0.022	0.001	-	0.001	85,000	39,900	32.00	72.00	162	156
CE (IIW): 0.439																			

Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
120	3" XS LR 90° Elbow	A185794	Hot Formed	PLYMOUTH TUBE CO.															
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.20	1.03	0.011	0.005	0.32	0.19	0.06	0.14	0.030	0.05	0.025	0.001	-	0.000	84,400	39,900	44.00	56.00	183	179
CE (IIW): 0.432																			

Quantity	Product	Heat Code	Heat Treatment Info	Steel Mill															
48	2 1/2" XS LR 90° Elbow	78628	Hot Formed	MICHIGAN SEAMLESS															
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.17	0.73	0.007	0.019	0.17	0.16	0.05	0.12	0.010	0.00	0.020	0.001	0.0000	0.001	69,600	39,900	42.20	62.40	136	136
CE (IIW): 0.332																			
CE (PCM): 0.228																			

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.

Mark Torres

Cert #264901 400862

Quality Assurance Department
11/5/2019



Scan For Online 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 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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A 234 WPB-13
Dimensional Specification: B16.9
SEGMENT WPB

A 234 WPB-13
Dimensional Specification: B16.9
WPB