



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

SUPERIOR SUPPLY & STEEL
318 CITY'S SERVICE HWY
SULPHUR, LA 70663
PO: P0206341-01

Quantity Product Heat Code Heat Treatment Info Steel Mill

13	4" XSLR 45° 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																			

2	3" XSLR 45° Elbow	A181715	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	1.02	0.008	0.010	0.31	0.13	0.05	0.08	0.020	0.05	0.016	0.000	-	0.000	81,600	39,900	27.00	-	171	174
CE (IIW): 0.412																			

13	2" XSLR 45° Elbow	A180981	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
0.17	0.64	0.006	0.009	0.24	0.14	0.06	0.09	0.020	0.00	0.021	0.001	-	0.000	69,700	39,900	26.90	-	153	153
CE (IIW): 0.312																			

4	1 1/2" XSLR 45° Elbow	A173891	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
0.17	0.64	0.008	0.014	0.25	0.19	0.08	0.12	0.030	0.00	0.022	0.001	-	0.000	71,500	39,900	36.00	68.00	110	110
CE (IIW): 0.325																			

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



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

Cert #254917 393725

Mark Torres
Quality Assurance Department
5/31/2019

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