



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

SUPERIOR SUPPLY & STEEL
318 CITY SERVICE HWY
SULPHUR, LA 70663
PO: P0181134-01

Quantity

Product

Heat Code

Heat Treatment Info

Steel Mill

24	6" Std LR 90° Elbow										HB0229	Hot Formed	V & M STAR							
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elon	ROA	BHN	BHN2	
0.20	1.04	0.009	0.004	0.23	0.15	0.05	0.13	0.010	0.06	0.028	0.003	0.0002	0.000	81,300	39,900	32.80	-	164	165	
CE (IIV): 0.426																				
CE (PCM): 0.282																				

6	5" Std LR 90° Elbow										480812	Hot Formed	TMK /IPSCO/KOPPEL							
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elon	ROA	BHN	BHN2	
0.21	0.79	0.006	0.004	0.22	0.22	0.08	0.09	0.030	0.05	-	-	-	0.001	77,200	39,900	37.00	-	132	135	
CE (IIV): 0.395																				

48	4" Std LR 90° Elbow										496309	Hot Formed	TMK /IPSCO/KOPPEL							
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elon	ROA	BHN	BHN2	
0.21	1.06	0.007	0.007	0.33	0.16	0.07	0.12	0.050	0.05	0.021	0.002	0.0009	0.001	86,600	39,900	31.00	-	165	172	
CE (IIV): 0.446																				
CE (PCM): 0.302																				

48	3" Std LR 90° Elbow										494807	Hot Formed	TMK /IPSCO/KOPPEL							
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elon	ROA	BHN	BHN2	
0.21	1.06	0.007	0.006	0.35	0.16	0.08	0.08	0.030	0.05	0.018	0.002	0.0001	0.001	83,300	39,900	25.50	-	150	156	
CE (IIV): 0.435																				
CE (PCM): 0.296																				

We hereby certify that the material meets the following:

- All fittings and flanges meet NACE MRO-17/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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Cert #204247

Mark Torres

Mark Torres

Quality Assurance Department
4/26/2017



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We hereby certify that the material meets the following:

- ISO 9001:2008 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 Weld Repair Performed. No Lead Content. No Mercury Content.
- Knowledgeably 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 01/26/2015 Rev 3

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