



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

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

Quantity	Product	Heat Code	Heat Treatment Info		Steel Mill														
4	1" XS LR 45° Elbow	J3K4093	Hot Formed		NIPPON A234-11 Dimensional Specification: B16.9														
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.12	1.33	0.010	0.015	0.23	0.01	0.02	0.11	0.020	0.00	0.035	0.010	-	0.000	66,862	39,900	53.00	-	156	131
CE (IIV): 0.370																			

Quantity	Product	Heat Code	Heat Treatment Info		Steel Mill														
12	4" XS Straight Tee	710274	Heat Treat: Normalized		JFE STEEL CORP. A234-11 Dimensional Specification: B16.9														
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.20	0.52	0.008	0.003	0.19	0.01	0.01	0.03	0.010	0.01	-	-	-	-	66,500	39,900	44.00	-	137	139
CE (IIV): 0.298																			

Quantity	Product	Heat Code	Heat Treatment Info		Steel Mill														
18	2" XS Straight Tee	J5L1409	Heat Treat: Normalized		NIPPON A 234 WPB-13 Dimensional Specification: B16.9														
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.19	0.64	0.016	0.007	0.21	0.01	0.02	0.05	0.010	0.00	0.021	-	0.0001	0.000	67,733	39,900	59.00	-	143	140
CE (IIV): 0.311																			
CE (PCM): 0.233																			

Quantity	Product	Heat Code	Heat Treatment Info		Steel Mill														
12	3" x 2" XS Concentric Reducer	47BN	Heat Treat: Normalized		V & M STAR A 234 WPB-13 Dimensional Specification: B16.9														
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Al	Ti	B	Cb	Tens.	Yield	Elong	ROA	BHN	BHN2
0.18	0.83	0.008	0.006	0.22	0.17	0.08	0.11	0.030	0.00	-	0.002	0.0002	0.000	75,100	39,900	28.10	-	145	143
CE (IIV): 0.363																			
CE (PCM): 0.247																			

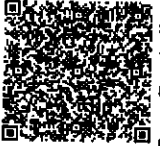
We hereby certify that the material meets the following

- All fittings and flanges meet NACE MRO-175/ISO 15156-Latest Revision.
- All fittings and flanges meet NACE MRD-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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Mark Torres

Mark Torres
Quality Assurance Department
4/26/2017

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
- 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 01/26/2015 Rev. 3

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