



6600 South Harlem Avenue  
Argo, IL 60501 - 1930

# Material Test Report

SUPERIOR SUPPLY & STEEL  
318 CITY'S SERVICE HWY  
SULPHUR, LA 70663  
PO: P0214744 - 01

### Quantity

### Product

### Heat Code

### Heat Treatment Info

### Steel Mill

<b>4</b>	<b>8" XS LR 45° Elbow</b>										<b>190042</b>	<b>Hot Formed</b>			<b>V &amp; M STAR</b>					
$\frac{C}{Mn}$	$\frac{P}{S}$	$\frac{Si}{Cu}$	$\frac{Ni}{Cr}$	$\frac{Mo}{V}$	$\frac{Al}{Ti}$	$\frac{B}{Cb}$	$\frac{Tens.}{Yield}$	$\frac{Elong}{ROA}$	$\frac{BHN}{BHN2}$	$\frac{SEGM}{WPPB}$	<i>Dimensional Specification: 816.9</i>									
1.04	0.008	0.004	0.30	0.14	0.05	0.12	0.010	0.06	0.037	0.003	0.0003	0.0003	0.000	83,000	39,900	30.70	-	181	179	<b>WPPB</b>
CE (INW): 0.424											CE (PCM): 0.284									

<b>5</b>	<b>6" XS LR 45° Elbow</b>										<b>IK0196</b>	<b>Hot Formed</b>			<b>V &amp; M STAR</b>					
$\frac{C}{Mn}$	$\frac{P}{S}$	$\frac{Si}{Cu}$	$\frac{Ni}{Cr}$	$\frac{Mo}{V}$	$\frac{Al}{Ti}$	$\frac{B}{Cb}$	$\frac{Tens.}{Yield}$	$\frac{Elong}{ROA}$	$\frac{BHN}{BHN2}$	$\frac{SEGM}{WPPB}$	<i>Dimensional Specification: 816.9</i>									
1.03	0.009	0.004	0.27	0.12	0.04	0.12	0.010	0.06	0.035	0.003	0.0003	0.0003	0.000	77,800	39,900	40.10	63.00	147	151	<b>WPPB</b>
CE (INW): 0.420											CE (PCM): 0.281									

<b>25</b>	<b>1 1/2" XS LR 45° Elbow</b>										<b>A173891</b>	<b>Hot Formed</b>			<b>PLYMOUTH TUBE CO.</b>				
$\frac{C}{Mn}$	$\frac{P}{S}$	$\frac{Si}{Cu}$	$\frac{Ni}{Cr}$	$\frac{Mo}{V}$	$\frac{Al}{Ti}$	$\frac{B}{Cb}$	$\frac{Tens.}{Yield}$	$\frac{Elong}{ROA}$	$\frac{BHN}{BHN2}$	$\frac{SEGM}{WPPB}$	<i>Dimensional Specification: 816.9</i>								
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	<b>WPPB</b>
CE (INW): 0.325											CE (PCM): 0.281								

<b>4</b>	<b>8" XS Straight Tee</b>										<b>J2L9025</b>	<b>Heat Treat: Normalized</b>			<b>NIPPON</b>					
$\frac{C}{Mn}$	$\frac{P}{S}$	$\frac{Si}{Cu}$	$\frac{Ni}{Cr}$	$\frac{Mo}{V}$	$\frac{Al}{Ti}$	$\frac{B}{Cb}$	$\frac{Tens.}{Yield}$	$\frac{Elong}{ROA}$	$\frac{BHN}{BHN2}$	$\frac{SEGM}{WPPB}$	<i>Dimensional Specification: 816.9</i>									
0.19	0.012	0.007	0.21	0.01	0.02	0.04	0.010	0.00	-	-	0.000	66,717	39,900	51.80	-	132	-	-	-	<b>WPPB</b>
CE (INW): 0.324											CE (PCM): 0.281									

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.
- Label chemistry reported.

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*Mark Torres*



Mark Torres  
Quality Assurance Department  
3/9/2020

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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 EN 10204 Para. 3.1 in accordance with PED 97/23/EC/12
- 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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