



6600 South Harlem Avenue
Argo, IL 60501-1930

Material Test Report

WELDBEND CORPORATION
PO Box 2388
Sulphur, LA
PO: P0238406-01

| Quantity | Product | Heat Code | Heat Treatment Info | Steel Mill | | | | | | | | | | | | | | | | |
|-----------------|-------------------------|-----------|---------------------|------------|------|------|------|-------|------|-------|-------|--------|-------|--------|--------|-------|-------|-----|------|--|
| 102 | 3" Class 150 Slip-on RF | DL9 | Hot Formed | CMC STEEL | | | | | | | | | | | | | | | | |
| C | Mn | P | S | Si | Cu | Ni | Cr | Mg | V | Al | Ti | B | CB | Tens. | Yield | Elong | ROA | BHN | BHN2 | |
| 0.19 | 1.02 | 0.011 | 0.017 | 0.20 | 0.33 | 0.09 | 0.10 | 0.035 | 0.00 | 0.002 | 0.001 | 0.0004 | 0.001 | 81,000 | 47,300 | 27.80 | 53.90 | 158 | 160 | |
| CE (HW): 0.415 | | | | | | | | | | | | | | | | | | | | |
| CE (PCM): 0.275 | | | | | | | | | | | | | | | | | | | | |



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|-----------------|-------------------------|-----------|---------------------|------------|------|------|------|-------|------|-------|-------|--------|-------|--------|---------|-------|-------|-----|------|--|
| 45 | 4" Class 150 Slip-on RF | 3DD98 | Hot Formed | RIVA | | | | | | | | | | | | | | | | |
| C | Mn | P | S | Si | Cu | Ni | Cr | Mg | V | Al | Ti | B | CB | Tens. | Yield | Elong | ROA | BHN | BHN2 | |
| 0.19 | 1.02 | 0.012 | 0.010 | 0.22 | 0.17 | 0.08 | 0.11 | 0.020 | 0.00 | 0.025 | 0.019 | 0.0000 | 0.002 | 80,400 | 50,000+ | 32.00 | 64.70 | 151 | 152 | |
| CE (HW): 0.398 | | | | | | | | | | | | | | | | | | | | |
| CE (PCM): 0.260 | | | | | | | | | | | | | | | | | | | | |



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|-----------------|--------------------------|-----------|---------------------|------------|------|------|------|-------|------|-------|-------|--------|-------|--------|--------|-------|-------|-----|------|--|
| 9 | 12" Class 150 Slip-on RF | 3DE04 | Hot Formed | RIVA | | | | | | | | | | | | | | | | |
| C | Mn | P | S | Si | Cu | Ni | Cr | Mg | V | Al | Ti | B | CB | Tens. | Yield | Elong | ROA | BHN | BHN2 | |
| 0.18 | 1.05 | 0.009 | 0.005 | 0.21 | 0.14 | 0.05 | 0.14 | 0.010 | 0.00 | 0.030 | 0.019 | 0.0002 | 0.001 | 75,500 | 46,000 | 32.80 | 68.20 | 144 | 145 | |
| CE (HW): 0.398 | | | | | | | | | | | | | | | | | | | | |
| CE (PCM): 0.256 | | | | | | | | | | | | | | | | | | | | |



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 fittings 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.

Richard Purpura
Quality Assurance Department
1/26/2023

Richard Purpura



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 PED Annex 1, Paragraph 4.3 of 2014/68/EU
- No Weld Repair Performed. No Lead Content. No Mercury Content.
- Knowledge 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 most current version of the Weldbend Quality System Program.
- MTR issued in accordance with EN 10204 paragraph 3.1

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Cert #351122