



CMC STEEL TEXAS
 1 STEEL MILL DRIVE
 SEGUIN TX 78155-7510

CERTIFIED MILL TEST REPORT
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 800-227-6489

We hereby certify that the test results presented here
 are accurate and conform to the reported grade specification

Drew M Fischer
 Drew M Fischer
 Quality Assurance Manager

Quality Assurance Manager

| HEAT NO.: 3120837 SECTION: ROUND 1 x 20'0" A529-55 GRADE: ASTM A529-14 Grade 55 ROLL DATE: 02/22/2023 MELT DATE: 01/06/2023 Cert. No.: 85414846 / 120837A149 | 3376252300 3376258509 | Delivery#: 85414846 BOL#: 75350663 CUST PO#: P0240931-01 CUST P/N: DLVRY LBS / HEAT: 4486.000 LB DLVRY PCS / HEAT: 84 EA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------|---|----------------|-------|----------------|-------|---|-------|--------------------------|-----|----|-------|-----------------------|---------|---|--------|-------------------------|---------|---|--------|-------------------|-----|----|-------|-----------------------------|-----|----|-------|----------------------|--------|----|-------|--|--|----|-------|--|--|----|--------|--|--|---|--------|--|--|----|--------|--|--|----|--------|--|--|----|--------|--|--|-----------------|-------|--|--|----------------|-------|--|--|-----------------------|---------|--|--|-------------------------|---------|--|--|-------------------|-----|--|--|-----------------------------|-----|--|--|
| <table border="1"> <thead> <tr> <th>Characteristic</th> <th>Value</th> <th>Characteristic</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>0.10%</td> <td>Reduction of Area test 1</td> <td>67%</td> </tr> <tr> <td>Mn</td> <td>1.02%</td> <td>Yield Strength test 2</td> <td>59.4ksi</td> </tr> <tr> <td>P</td> <td>0.007%</td> <td>Tensile Strength test 2</td> <td>76.7ksi</td> </tr> <tr> <td>S</td> <td>0.021%</td> <td>Elongation test 2</td> <td>43%</td> </tr> <tr> <td>Si</td> <td>0.20%</td> <td>Elongation Gage Lgth test 2</td> <td>2IN</td> </tr> <tr> <td>Cu</td> <td>0.27%</td> <td>BHN @ Surface test 1</td> <td>159BHN</td> </tr> <tr> <td>Cr</td> <td>0.12%</td> <td></td> <td></td> </tr> <tr> <td>Ni</td> <td>0.10%</td> <td></td> <td></td> </tr> <tr> <td>Mo</td> <td>0.035%</td> <td></td> <td></td> </tr> <tr> <td>V</td> <td>0.016%</td> <td></td> <td></td> </tr> <tr> <td>Cb</td> <td>0.021%</td> <td></td> <td></td> </tr> <tr> <td>Sn</td> <td>0.011%</td> <td></td> <td></td> </tr> <tr> <td>Al</td> <td>0.000%</td> <td></td> <td></td> </tr> <tr> <td>Carbon Eq F1554</td> <td>0.29%</td> <td></td> <td></td> </tr> <tr> <td>Carbon Eq A529</td> <td>0.37%</td> <td></td> <td></td> </tr> <tr> <td>Yield Strength test 1</td> <td>59.4ksi</td> <td></td> <td></td> </tr> <tr> <td>Tensile Strength test 1</td> <td>76.2ksi</td> <td></td> <td></td> </tr> <tr> <td>Elongation test 1</td> <td>26%</td> <td></td> <td></td> </tr> <tr> <td>Elongation Gage Lgth test 1</td> <td>8IN</td> <td></td> <td></td> </tr> </tbody> </table> | | | Characteristic | Value | Characteristic | Value | C | 0.10% | Reduction of Area test 1 | 67% | Mn | 1.02% | Yield Strength test 2 | 59.4ksi | P | 0.007% | Tensile Strength test 2 | 76.7ksi | S | 0.021% | Elongation test 2 | 43% | Si | 0.20% | Elongation Gage Lgth test 2 | 2IN | Cu | 0.27% | BHN @ Surface test 1 | 159BHN | Cr | 0.12% | | | Ni | 0.10% | | | Mo | 0.035% | | | V | 0.016% | | | Cb | 0.021% | | | Sn | 0.011% | | | Al | 0.000% | | | Carbon Eq F1554 | 0.29% | | | Carbon Eq A529 | 0.37% | | | Yield Strength test 1 | 59.4ksi | | | Tensile Strength test 1 | 76.2ksi | | | Elongation test 1 | 26% | | | Elongation Gage Lgth test 1 | 8IN | | |
| Characteristic | Value | Characteristic | Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 0.10% | Reduction of Area test 1 | 67% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mn | 1.02% | Yield Strength test 2 | 59.4ksi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 0.007% | Tensile Strength test 2 | 76.7ksi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 0.021% | Elongation test 2 | 43% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Si | 0.20% | Elongation Gage Lgth test 2 | 2IN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cu | 0.27% | BHN @ Surface test 1 | 159BHN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cr | 0.12% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ni | 0.10% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mo | 0.035% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V | 0.016% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cb | 0.021% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sn | 0.011% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Al | 0.000% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Eq F1554 | 0.29% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon Eq A529 | 0.37% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yield Strength test 1 | 59.4ksi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tensile Strength test 1 | 76.2ksi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elongation test 1 | 26% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elongation Gage Lgth test 1 | 8IN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The Following is true of the material represented by this MTR:</p> <ul style="list-style-type: none"> *Material is fully killed and is Hot Rolled Steel *100% melted, rolled, and manufactured in the USA *EN10204:2004 3.1 compliant *Contains no weld repair *Contains no Mercury contamination *Manufactured in accordance with the latest version of the plant quality manual *Meets the "Buy America" requirements of 23 CFR635.410, 49 CFR 661 *Warning: This product can expose you to chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

REMARKS : MEETS THE REQUIREMENTS OF AASHTO M314 GRADE 55, SUPPLEMENT S1 INCLUSIVE
 ALSO MEETS THE REQUIREMENTS FOR ASTM F1554 GRADE 55, SUPPLEMENT S1, INCLUSIVE