



# Mill Certification

12/20/2022

MTR#:1215158-3  
Lot #:110796601460  
8812 HWY 79 W  
Jewett, TX 75846 US  
903 626-4461  
Fax: 903 626-6290

Sold To: STEEL & PIPE SUPPLY CO INC  
PO BOX 1688  
MANHATTAN, KS 66502 US

Ship To: STEEL & PIPE SUPPLY KC WAREHOUSE  
401 NEW CENTURY PKWY  
NEW CENTURY, KS 66031 US

|                              |  |                         |                |
|------------------------------|--|-------------------------|----------------|
| Customer PO                  | 4500541213   | Sales Order #           | 11053534 - 1.1 |
| Product Group                | Hot Roll - Merchant Bar Quality  | Product #               | 3017331        |
| Grade                        | Nucor Multigrade   | Lot #                   | 110796601460   |
| Size                         | 0.5" x 8"  | Heat #                  | 1107966014     |
| BOL #                        | BOL-1309859  | Load #                  | 1215158        |
| Description                  | Hot Roll - Merchant Bar Quality Flat 1/2" x 8" Nucor Multigrade<br>20' 0" [240"] 2001-6000 lbs | Customer Part #         | 101680020      |
| Production Date              | 10/13/2022   | Qty Shipped LBS         | 14700          |
| Product Country<br>Of Origin | United States  | Qty Shipped EA          | 54             |
| Original Item<br>Description |  | Original Item<br>Number |                |

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Melt Country of Origin : United States

Melting Date: 07/23/2022

| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Ni (%) | Cr (%) | Mo (%) | Cu (%) | V (%) | Sn (%) |
|-------|--------|-------|-------|--------|--------|--------|--------|--------|-------|--------|
| 0.13  | 0.97   | 0.012 | 0.024 | 0.200  | 0.12   | 0.10   | 0.04   | 0.30   | 0.055 | 0.013  |

ASTM A529 S78.2 CE (%) : 0.39

### Tensile testing

|     | Yield (PSI) | Tensile (PSI) | Elongation in<br>8" (%) |
|-----|-------------|---------------|-------------------------|
| (1) | 57100       | 73300         | 21.0                    |
| (2) | 56800       | 72500         | 21.0                    |

### Comments:

NUCOR MULTIGRADE MEETS THE REQUIREMENTS OF: ASTM A36/A36M-14; A529/529M-05(2009) GR50(345); A572/572M-07 GR50(345); A709/709M-10 GR36(250) & GR50(345); CSA G40.21-04 GR44W(300W)& GR50W(350W); AASHTO M270/M270M-10 GR36(270) & GR50(345); ASME SA36/SA36M-07; MEETS REPORTING REQUIREMENTS OF EN10204 SEC 3.1

1. All manufacturing processes of the steel, including melting, casting & hot rolling, have been performed in U.S.A
2. Mercury not intentionally added at any point during manufacturing or testing of this material.
3. Welding or weld repair was not performed on this material.
4. This material conforms to the specifications described on this document and may not be reproduced, except in full, without written approval of Nucor Corporation.
5. Results reported ASTM E45 (Inclusion content) and ASTM E381 (Macro-etch) are provided as interpretation of ASTM procedures.

Ada Ortega, Quality Assurance

Sold To: STEEL & PIPE SUPPLY CO INC  
 PO BOX 1688  
 MANHATTAN, KS 66502 US

Ship To: CPU RYDER  
 4750 W MARSHALL AVE  
 LONGVIEW, TX 75604 US

|                              |  |                         |                |
|------------------------------|--|-------------------------|----------------|
| Customer PO                  | 4500544290   | Sales Order #           | 11056601 - 3.2 |
| Product Group                | Hot Roll - Merchant Bar Quality  | Product #               | 3017331        |
| Grade                        | Nucor Multigrade   | Lot #                   | 110700040960   |
| Size                         | 0.5" x 8"  | Heat #                  | 1107000409     |
| BOL #                        | BOL-1376943  | Load #                  | 1283700        |
| Description                  | Hot Roll - Merchant Bar Quality Flat 1/2" x 8" Nucor Multigrade<br>20' 0" [240"] 2001-6000 lbs | Customer Part #         | 101680020      |
| Production Date              | 03/07/2023   | Qty Shipped LBS         | 14700          |
| Product Country<br>Of Origin | United States  | Qty Shipped EA          | 54             |
| Original Item<br>Description |  | Original Item<br>Number |                |

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Melt Country of Origin : United States

Melting Date: 01/19/2023

| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Ni (%) | Cr (%) | Mo (%) | Cu (%) | V (%) | Sn (%) |
|-------|--------|-------|-------|--------|--------|--------|--------|--------|-------|--------|
| 0.13  | 0.81   | 0.019 | 0.010 | 0.240  | 0.19   | 0.16   | 0.04   | 0.31   | 0.052 | 0.012  |

ASTM A529 S78.2 CE (%) : 0.39

**Tensile testing**

|     | Yield (PSI) | Tensile (PSI) | Elongation in<br>8" (%) |
|-----|-------------|---------------|-------------------------|
| (1) | 61300       | 77400         | 20.0                    |
| (2) | 61200       | 76500         | 22.0                    |

**Comments:**

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