



Mill Certification
09/09/2020

MTR#:491021-5
Lot #:110001331863
8812 HWY 79 W
Jewett, TX 75846 US
903 626-4461
Fax: 903 626-6290

| | | | |
|---------------------------|---|----------------------|----------------|
| Customer PO | 4500352798 | Sales Order # | 11021036 - 3.1 |
| Product Group | Hot Roll - Merchant Bar Quality | Product # | 3006054 |
| Grade | Nucor Multigrade | Lot # | 110001331863 |
| Size | 3" x 3" x 0.3125" | Heat # | 1100013318 |
| BOL # | BOL-571209 | Load # | 491021 |
| Description | Hot Roll - Merchant Bar Quality Equal Angle 3" x 3" x 5/16" Nucor Multigrade 20' 0" [240"] 2001-6000 lbs | Customer Part # | |
| Production Date | 09/04/2020 | Qty Shipped LBS | 5124 |
| Product Country Of Origin | United States | Qty Shipped EA | 42 |
| Original Item Description | | Original Item 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: 06/27/2020

| | | | | | | | | | | | |
|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|-------|--------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Ni (%) | Cr (%) | Mo (%) | Cu (%) | Ti (%) | V (%) | Nb (%) |
| 0.12 | 0.89 | 0.012 | 0.026 | 0.212 | 0.12 | 0.13 | 0.03 | 0.30 | 0.000 | 0.037 | 0.000 |
| Sn (%) | | | | | | | | | | | |
| 0.011 | | | | | | | | | | | |

ASTM A529 S78.2 CE (%) : 0.37

Other Test Results

Yield (PSI) : 56800

Yield (PSI) : 56500

Tensile (PSI) : 74400

Tensile (PSI) : 73900

Elongation in 8" (%) : 20.0

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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 in any form has not been used in the production or testing of this product.
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.

Reddy R Vantari

Reddy Vantari, Chief Metallurgist