



Mill Certification

02/04/2022

MTR#:933322-3
Lot #:800001072123
300 STEEL MILL RD
DARLINGTON, SC 29540 US
843 393-5841
x: 843 395-8701

Customer PO	41062	Sales Order #	80022177 - 3.10
Product Group	Hot Roll - Merchant Bar Quality	Product #	3005955
Grade	Nucor Multigrade	Lot #	800001072123
Size	3" x 3" x 0.25"	Heat #	8000010721
BOL #	BOL-1040983	Load #	933322
Description	Hot Roll - Merchant Bar Quality Equal Angle 3" x 3" x 1/4" Nucor Multigrade 20' 0" [240"] 4001-6000 lbs	Customer Part #	S-A33
Production Date	05/22/2021	Qty Shipped LBS	4900
Product Country Of Origin	United States	Qty Shipped EA	50
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: 05/09/2021

<u>C (%)</u>	<u>Mn (%)</u>	<u>P (%)</u>	<u>S (%)</u>	<u>Si (%)</u>	<u>Ni (%)</u>	<u>Cr (%)</u>	<u>Mo (%)</u>	<u>Cu (%)</u>	<u>Ti (%)</u>	<u>V (%)</u>	<u>Nb (%)</u>
0.15	0.69	0.010	0.029	0.180	0.10	0.14	0.02	0.33	0.001	0.032	0.002

Sn (%)

0.011

ASTM A529 S78.2 CE (%) : 0.36

ASTM A992 5.4 CE (%) : 0.33

Reduction Ratio 34.08 : 1

Tensile testing

	Yield (PSI)	Tensile (PSI)	Elongation in 8" (%)
(1)	57600	75900	26.0
(2)	52900	71700	27.0

Comments:

Nucor Multigrade meets the requirements of: ASTM A36/A36M, A529/A529M GR50, A572/A572M GR50(345), A709/A709M GR36(250) & GR50(345), CSA G40.21 GR44W(300W) & GR50W(350W), AASHTO M270/M270M-10 GR36(270) & GR50(345), ASME SA36/SA36M, QQ-S-741D, CAT 1E1883. Produced to a fully killed, fine grain practice.

Welding or weld repair was not performed on this material.

Melted and Manufactured in the U.S.A and complies with the Buy American Act.

Mercury, radium, or alpha source materials not intentionally added at any point during manufacturing or testing of this material.

Material is certified to the most recent revision of the specification(s) and grade indicated at the time of production.

Mark Schmidt, Chief Metallurgist