

Customer PO	59044	Sales Order #	80055678 - 6.1
Product Group	Hot Roll - Merchant Bar Quality	Product #	3016344
Grade	Nucor Multigrade	Lot #	800002544721
Size	0.25" x 2"	Heat #	8000025447
BOL #	BOL-1535014	Load #	1486850
Description	Hot Roll - Merchant Bar Quality Flat 1/4" x 2" Nucor Multigrade 20' 0" [240"] 2001-6000 lbs	Customer Part #	SF142
Production Date	07/17/2023	Qty Shipped LBS	15309
Product Country Of Origin	United States	Qty Shipped EA	450
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: 07/10/2023

C (%)	Mn (%)	P (%)	S (%)	Si (%)	Ni (%)	Cr (%)	Mo (%)	Cu (%)	Ti (%)	Nb (%)	Sn (%)
0.14	0.67	0.009	0.021	0.183	0.10	0.14	0.02	0.41	0.001	0.011	0.010

ASTM A529 S78.2 CE (%) : 0.35

ASTM A992 5.4 CE (%) : 0.32

Reduction Ratio 98.00 : 1

Tensile testing

	Yield (PSI)	Tensile (PSI)	Elongation in 8" (%)
(1)	56100	73500	27.0
(2)	57900	73600	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.

Conforms to EN 10204 - 3.1

When applicable, testing is performed in accordance with the most current revisions of the following ASTM standards: Chemical analysis E415/E1019, tensile testing A370, hardness testing E18, Inclusion ratings E45, Grain size E112



Mark Schmidt, Chief Metallurgist