

Customer PO	4500543480	Sales Order #	11055004 - 5.1
Product Group	Hot Roll - Merchant Bar Quality	Product #	3018220
Grade	Nucor Multigrade	Lot #	110004253160
Size	1" x 8"	Heat #	1100042531
BOL #	BOL-1327564	Load #	1234556
Description	Hot Roll - Merchant Bar Quality Flat 1" x 8" Nucor Multigrade 20' 0" [240"] 2001-6000 lbs	Customer Part #	1010080020
Production Date	12/30/2022	Qty Shipped LBS	9800
Product Country Of Origin	United States	Qty Shipped EA	18
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: 12/25/2022

C (%)	Mn (%)	P (%)	S (%)	Si (%)	Ni (%)	Cr (%)	Mo (%)	Cu (%)	Ti (%)	V (%)	Sn (%)
0.12	0.83	0.017	0.029	0.211	0.13	0.21	0.05	0.29	0.001	0.053	0.010

ASTM A529 S78.2 CE (%) : 0.38

**Tensile testing**

	Yield (PSI)	Tensile (PSI)	Elongation in 8" (%)
(1)	52500	68300	24.0
(2)	52300	68600	24.0

**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

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

Ada Ortega, Quality Assurance