



**INDIANA**

Member of NLMK Group  
6500 South Boundary Road  
Portage, Indiana 46368 USA

**\*\*\*MATERIAL CERTIFICATION\*\*\***

MILL ORDER: 1044048  
P.O. NUMBER: 606-20814

PART NUMBER:  
P.O. DATE: 09/02/2010

PAGE NUMBER: 1 of 1  
PRINTED: 9/15/10 08:44

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D  
STOCKTON, CA 95206

S  
H T  
I O UP Yard #3 Track 759  
P RIVERGATE, OR 97203

Material Description: HOT ROLLED BAND PRIME COIL MILL EDGE ASTM A1018 HSLAS GRADE 55 CLASS 1 HIGH STRENGTH LOW ALLOY

Size: .5000 X 60.0000 X COIL NOM

Heat Number	C	0.06	MN	0.92	P	0.009	S	0.008	SI	0.02
N3374 FNL ARL	CU	0.15	NI	0.07	CR	0.05	AL	0.033	MO	0.018
	V	0	CB	0.042	N	0.008	B	0	CA	0.0025
	SN	0.01	TI	0	SA	0.031				

*A572*

Made and Melted in the USA

TENSILE:	ASTM AS ROLLED	TEN
Location	Dir	Tensile/PSI
	T	79300.0
Location	Dir	Yield/PSI
	T	66500.0
		% Elong
		35.00
		Tensile/PSI
		79700.0
		Yield/PSI
		68800.0
		% Elong
		30.00

Material: 442234\*, 442235, 442236

22866

22867

22868

\* Coil was not tested.

*Robert M Chase*

QA Representative

WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATION.

% Elongation in two inch gauge length.

SA = Soluble Aluminum

FORM QI1002

Issue Date 10/03/00

STEEL FAB

**Customer PO#**

63302

**Invoice No**

352113

**Shipper No**

324257

**Heat Number**

1202055116

**NUCOR****Mill Certification**

11/28/2023

MTR#:1537952-10  
 Lot #:120205511620  
 W CEMETERY ROAD  
 PLYMOUTH, UT 84330 US  
 800 453-2886  
 Fax: 435 458-2309

Sold To: SEAPORT STEEL COMPANY  
 3660 E MARGINAL WAY S  
 SEATTLE, WA 98134 US

Ship To: SEAPORT STEEL - SEATTLE  
 3660 E MARGINAL WAY S  
 SEATTLE, WA 98134 US

Customer PO	45118	Sales Order #	12114085 - 1.1
Product Group	Hot Roll - Merchant Bar Quality	Product #	3016490
Grade	Nucor Multigrade	Lot #	120205511620
Size	0.25" x 8"	Heat #	1202055116
BOL #	BOL-1586165	Load #	1537952
Description	Hot Roll - Merchant Bar Quality Flat 1/4" x 8" Nucor Multigrade 20' 0" [240"] 2001-6000 lbs	Customer Part #	FL1/4X8 20 10W0
Production Date	11/01/2023	Qty Shipped LBS	3947
Product Country Of Origin	United States	Qty Shipped EA	29
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: 10/28/2023

C (%)	Mn (%)	P (%)	S (%)	Si (%)	Ni (%)	Cr (%)	Mo (%)	Cu (%)	V (%)	Nb (%)	Sn (%)
0.14	0.90	0.012	0.041	0.27	0.09	0.22	0.02	0.27	0.025	0.002	0.009

ASTM A529 S78.2 CE (%) : 0.41

ASTM A992 5.4 CE (%) : 0.37

**Tensile testing**

	Yield (PSI)	Tensile (PSI)	Elongation in 8" (%)
(1)	55800	73600	27.0
(2)	56200	73400	28.0

**Comments:**

ASTM A36-19, ASTM A529 -19 Grade 50, ASTM A572-21e1 Grade 50, CSA G40.21-13(R2018) 44W(300W)/50W(350W), ASTM A709-21 Grade 36/Grade 50 (NO CVN), AASHTO 270 -15 Grade 36/Grade 50, ASME SA36 -17  
 Nucor Steel Utah is in compliance with and certified to: ISO 9001:2015, ISO 14001:2015, ABS Quality Assurance Program & AASHTO's NTPEP  
 Reinforcing Steel and Wire (REBAR) Technical Committee Work Plan.  
 All manufacturing processes of the steel materials in this product, including melting, casting and hot rolling have occurred within the United States.  
 Mercury not intentionally added at any point during manufacture or testing of this product. This material is free of HG contamination and is ROHS compliant. No weld repair was performed.  
 Material meets the requirements of the purchase order and have been produced under the Nucor Steel Utah Quality Manual. Mill Certificate complies with DIN EN 10204 - 3.1.  
 Material and Mill Certification are in full compliance with the American Iron and Steel requirement as mandated in EPA's State Revolving Fund Programs and complies with the Buy America Act, and (FTA) Buy America Requirements (49 C.F.R. part 661 & 23 CFR part 635.410.).

*B.M.*  
 Bryden Morris, Chief Metallurgist

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**NUCOR****Mill Certification**

02/06/2023

MTR#: 1249078-9  
 Lot #: 350002896620  
 2424 SW ANDOVER ST  
 SEATTLE, WA 98106 US  
 206 933-2222  
 Fax: 206 933-2207

Sold To: SEAPORT STEEL COMPANY  
 3660 E MARGINAL WAY S  
 SEATTLE, WA 98134 US

Ship To: SEAPORT STEEL COMPANY  
 604 SW VICTORY AVE  
 VANCOUVER, WA 98661 US

Customer PO	41811	Sales Order #	35027702 - 2.1
Product Group	Hot Roll - Merchant Bar Quality	Product #	3016860
Grade	Nucor Multigrade	Lot #	350002896620
Size	0.375" x 6"	Heat #	3500028966
BOL #	BOL-1343581	Load #	1249078
Description	Hot Roll - Merchant Bar Quality Flat 3/8" x 6" Nucor Multigrade 20' 0" [240"] 2001-6000 lbs	Customer Part #	
Production Date	11/29/2022	Qty Shipped LBS	4900
Product Country Of Origin	United States	Qty Shipped EA	32
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: 11/19/2022

C (%)	Mn (%)	P (%)	S (%)	Si (%)	Ni (%)	Cr (%)	Mo (%)	Cu (%)	V (%)	Nb (%)	Sn (%)
0.13	0.84	0.016	0.026	0.18	0.10	0.17	0.02	0.30	0.004	0.008	0.010

ASTM A529 S78.2 CE (%) : 0.37

ASTM A992 5.4 CE (%) : 0.34

**Tensile testing**

	Yield (PSI)	Tensile (PSI)	Elongation in 8" (%)
(1)	56254	76025	32.8
(2)	56109	75348	34.4

**Comments:**

ASTM A36/A36M-14, A529/A529M-14 GR50,  
 A572/A572M-15 GR50, A709/A709M-16A GR36/50 NO CVN,  
 CSA G40.21-13 GR44W/GR50W,  
 AASHTO M270/M270M-12 GR36/GR50, ASME SA36/SA36M-13  
 MEETS REPORTING REQUIREMENTS OF EN10204 SEC 3.1

Nucor-Seattle is ISO 9001-2015, 14001, 45001 and ABS certified. All manufacturing processes of the steel materials in this product, including melting, have occurred within the United States. Mercury, in any form has not been intentionally added at any point during the the production and testing of this material. This material is free of HG contamination and is ROHS compliant. No weld repair was performed. Parts meet the requirements of the purchase order and have been produced under the Nucor Steel Seattle quality manual.

The melting, casting and rolling processes for manufacturing the this material are in full compliance with the American Iron and Steel requirement as mandated in EPA's State Revolving Fund Programs. This material was manufactured in the US and complies with the Buy American Act, and (FTA) Buy America Requirements (49 C.F.R. part 661)

  
 Erik Nissen, Plant Metallurgist

Page 1 of 1

Customer PO#  
63148

Invoice No  
345445

Shipper No  
318322

Heat Number  
1201051744

**NUCOR**

**Mill Certification**  
05/25/2023

MTR# 1389277-5  
Lot # 120105174420  
W CEMETERY ROAD  
PLYMOUTH, UT 84330 US  
800 453-2866  
Fax: 435 458-2309

Sold To: SEAPORT STEEL COMPANY  
3660 E MARGINAL WAY S  
SEATTLE, WA 98134 US

Ship To: SEAPORT STEEL - SEATTLE  
3660 E MARGINAL WAY S  
SEATTLE, WA 98134 US

Customer PO	42710	Sales Order #	12102105 - 1.1
Product Group	Hot Roll - Merchant Bar Quality	Product #	3017331
Grade	Nucor Multigrade	Lot #	120105174420
Size	0.5" x 8"	Heat #	1201051744
BOL #	BOL-1438418	Load #	1389277
Description	Hot Roll - Merchant Bar Quality Flat 1/2" x 8" Nucor Multigrade 20' 0" [240"] 2001-6000 lbs	Customer Part #	FL1/2X8 20 10W0
Production Date	05/22/2023	Qty Shipped LBS	16332
Product Country Of Origin	United States	Qty Shipped EA	60
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: 05/13/2023

C (%)	Mn (%)	P (%)	S (%)	Si (%)	Ni (%)	Cr (%)	Mo (%)	Cu (%)	V (%)	Nb (%)	Sn (%)
0.13	0.84	0.010	0.046	0.20	0.11	0.13	0.02	0.29	0.019	0.002	0.011

ASTM A529 S78.2 CE (%) : 0.37

ASTM A992 5.4 CE (%) : 0.34

**Tensile testing**

	Yield (PSI)	Tensile (PSI)	Elongation in 8" (%)
(1)	50100	71000	25.0
(2)	51300	71100	26.0

**Comments:**

ASTM A36-19, ASTM A529 -19 Grade 50, ASTM A572-21e1 Grade 50, CSA G40.21-13(R2018) 44W(300W)/50W(350W), ASTM A709-21 Grade 36/Grade 50 (NO CVN), AASHTO 270 -15 Grade 36/Grade 50, ASME SA36 -17

Nucor Steel Utah is in compliance with and certified to: ISO 9001:2015, ISO 14001:2015, ABS Quality Assurance Program & AASHTO's NTPRP Reinforcing Steel and Wire (REBAR) Technical Committee Work Plan.

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Material meets the requirements of the purchase order and have been produced under the Nucor Steel Utah Quality Manual. Mill Certificate complies with DIN EN 10204 - 3.1.

Material and Mill Certification are in full compliance with the American Iron and Steel requirement as mandated in EPA's State Revolving Fund Programs and complies with the Buy America Act, and (FTA) Buy America Requirements (49 C.F.R. part 661 & 23 CFR part 635.410).

  
Bryden Morris, Chief Metallurgist