

NUCOR
 PLATE MILL GROUP

P.O. Box 279
 Winston, NC 27986
 (252) 356-3700

Mill Test Report

1505 River Rd
 Corfield, NC 27922
 (252) 356-3700

PLATE # **80722464**

To: SUPERIOR SUPPLY STEEL

06/06/2023 From: AMERICAN ALLOY STEEL, INC.

P.O. # PO241876-15

S.O. # 742662

AA PL# 8072924

Item 2 (2 PC) 1" X 96" X 240"

Issuing Date : 03/10/2023 B/L No. : 844032 Load No. : 662390 Our Order No. : 2637492 Cust Order No. : 133933
 Vehicle No: TTPX 811048 Sold To: AMERICAN ALLOY STEEL, INC.
 6220 N HOUSTON ROSSLYN RD
 NORTH HOUSTON, TX 77091
 Specification: 1.0000" x 96.000" x 480.000"
 AP12H50 9th Ed.-06 S1.S3.S4--3/4" SQ/ABS EHS8/DH36 JAN 2023/MIL-S-
 22898C EHS8Z-1"DH8/ASTM A537-20 Cl Mod (0.04 Nb Max)/ASME
 SA537 Cl 1 2017 Mod/0.04 Nb Max/ASTM A533-18 Gr. C/ASTM A572
 Gr. 50-18 A709 Gr. 50-18 Type 1 EN10204 3.2 ASTM A131-18 EHDH36
 Marking : 133933
 5752102
 22 MARCH 2023
 Laura Bucci



Heat No	C	Mn	P	S	Si	CU	Ni	Cr	Mo	Al(%)	V	Nb	Ti	N	Ca	B	Sr	Cd	Pcm
3601207	0.16	1.35	0.009	0.003	0.35	0.18	0.21	0.07	0.02	0.025	0.003	0.036	0.003	0.0086	0.0020	0.0003	0.008	0.43	0.25
CC-3601207	0.16	1.34	0.008	0.002	0.34	0.18	0.21	0.06	0.01	0.029	0.003	0.033	0.003	0.0069	0.0010	0.0003	0.008	0.42	0.25
CC-3601207	0.16	1.33	0.008	0.002	0.34	0.17	0.21	0.06	0.01	0.029	0.003	0.034	0.003	0.0011	0.0002	0.0002	0.007	0.42	0.25

Plate Serial No	Pieces	Tons	Dir.	Tensile Test				R.A. %	Heat Treat				
				Yield (psi)	Tensile (psi)	Elong. % in 2"	Elong. % in 8"		Norm (°F)	Time (min)	Temper (°F)	Time (min)	
3601207-04	3	19.60	H-T	55,900	78,100	52.1		1650	41				
			H-Z			62.7		1650	41				
			T-Z			53.0							
3601207-05	6	39.20	H-T	56,100	77,900	53.2		1650	41				
			H-Z			57.7		1650	41				
			T-Z			60.1							

Plate Serial No	Pieces	Tons	Dir.	Absorbed Energy (Ft-lbs)				Lateral Expansion (in.)				Shear (%)			Min Temp (°F)	Size			
				1	2	3	Ave	1	2	3	Ave	1	2	3					
3601207-04	3	19.60	H-T	174.3	149.0	128.1	150.5												
			H-Z																
			T-Z																
3601207-05	6	39.20	H-T	145.8	153.6	130.8	143.4												
			H-Z																
			T-Z																

Ultrasonic

NOT ROLLED CARBON STEEL PLATE
 TEST COUPONS TAKEN FROM HEAT TREATED PLATE
 100% UT per ASTM Level A/C indications resulting in greater than 50% loss in duct reflection shall be reported on the sketch included on the MTR.
 Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material.
 Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast discrete plate, unless otherwise noted
 In Specification. For Mexico shipments: mc_SalesMkt@nuco.com
 Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+(Cr+Mo+V/5)+(Cu+Ni/15)
 Perm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Nb/15)+(V/10)+58
 Melted and Manufactured in the USA. ISO 9001:2015 certified. PED 2014/68/EU, 97/23/EC 7/2 Annex 1, Para. 4.3 Compliant. API Q1-1851
 DIN 50049 3.1/BEN 10204 3.1(2004) 3.1B(1893) DIN EN 10204 3.1(2005) compliant. ABS QA-3624365
 We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications, including customer specifications.
 C.L. Cooper, Metallurgist
 3/13/2023 12:53:49 PM

Continued a true copy of the original retained in our file.
 Reviewed By: PO 3120123
 AMERICAN ALLOY STEEL, INC.

NUCOR
 P.O. Box 279
 Winston, NC 27986
 (252) 356-3700

Mill Test Report

1505 River Rd
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Issuing Date : 03/10/2023 B/L No. : 644032 Load No. : 662390 Our Order No. : 203748/2 Cust. Order No. : 133933
 Vehicle No: TTPX 811048
 Specification: 1.0000" x 96.000" x 480.000"
 AP2H50 9H Ed.-06 S1,S3,S4-S4-3/4" SS/ABS EHS6DH36 JAN 2023MIL-S-
 22698C EHS6Z-1"DH36/ASTM A537-20 Cl1 Mod (0.04 Nb Max)/ASME
 SAS37 Cl1 2017 Mod(0.04 Nb Max)/ASTM A333-18 Gr. C/ASTM A572
 Gr.50-18 A709 Gr. 50-18 Type 1 EN10204 3.2 ASTM A131-19 EHDH36
 Marking : 133933
 Sold To: AMERICAN ALLOY STEEL INC
 6230 N HOUSTON ROSSL YN RD
 PO BOX 40489
 NORTH HOUSTON, TX 77061
 5752102
 22 MARCH 2023
 Ship To: AMERICAN ALLOY STEEL
 6230 N HOUSTON ROSSL YN RD
 BNSF TR # 7228
 MILE 664 LN SEG 492
 NORTH HOUSTON, TX 77061



Laura Bucci

Heat No	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al(ot)	V	Nb	Ti	N	Ca	B	Sn	Ceq	Pcm
3601207	0.16	1.35	0.009	0.003	0.35	0.18	0.21	0.07	0.02	0.028	0.003	0.036	0.003	0.0086	0.0020	0.0003	0.008	0.43	0.25
CC-3601207	0.16	1.34	0.008	0.002	0.34	0.18	0.21	0.06	0.01	0.028	0.003	0.033	0.003	0.0069	0.0010	0.0003	0.008	0.42	0.25
CC-3601207	0.16	1.33	0.008	0.002	0.34	0.17	0.21	0.06	0.01	0.029	0.003	0.034	0.003	0.0071	0.0002	0.0002	0.007	0.42	0.25
Plate Serial No	Ultrasonic																		
3601207-04	3 PASSED																		
3601207-05	6 PASSED																		

HOT ROLLED CARBON STEEL PLATE
 TEST COUPONS TAKEN FROM HEAT TREATED PLATE
 100% UT per ASTM Level A/C Indications resulting in greater than 50% loss in back reflection shall be reported on the sketch included on the MTR:

Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material.
 Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast discrete plate, unless otherwise noted
 In Specification. For Mexico shipments: rnc.SalesMkt@nucor.com
 Yield by 0.5EIL method unless otherwise specified. Ceq = C+(Mn/6)+(Cr+Mo+V/5)+(Cu+Ni/15)
 Pcm = C+(S/20)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+Sb
 Melted and Manufactured in the USA. ISO 9001:2015 certified. PED 2014/68/EU. 97/23/EC 7/2 Annex 1. Para. 4.3 Compliant. API Q1-1951
 DIN 50049 3.1, EN 10204 3.1(2004) 3.1B(1993)/DIN EN 10204 3.1(2005) compliant. ABS QA-362436

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications, including customer specifications.

[Signature]
 C. L. Cooper, Metallurgist

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 AA PL# 8072924