NUCOR
PLATE MILL

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

Mill Test Report

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

NUCOR
It's Our Nature.

Issuing Date : 06/12/2018 B/L No. : 504199 Load No. : 514373 Our Order No. : 157227/1 Cust. Order No. : HOU-8028

Vehicle No: TTPX 81225 Sold To:

Specification: 0.3750" x 96.000" x 480.000"
ASTM A572 Grade 50-18/A709 Grade 50-17 AASHTO M270-2017
50/SA572 Grade 50 (2017) .10 C Max

Marking :

Heat No	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al(tot)	V	Nb	Ti	N	Ca	B	Sn	Ceq	Pcm
8503696	0.07	1.29	0.006	0.000	0.19	0.15	0.07	0.06	0.02	0.030	0.005	0.032	0.002		0.0040	0.0001	0.008	0.31	0.15

Plate Serial No	Pieces	Tons	Tensile Test Dir.	(psi) Yield	(psi) Tensile	Elong. % in 2"	Elong. % in 8"
8503696-03	1	2.45	T	52,200	69,300		23.3
			T	60,900	74,100		23.8
8503696-04	3	7.35	T	52,200	69,300		23.3
			T	60,900	74,100		23.8

Plate Serial No	Pieces	Tons	Dir.	Absorbed Energy (Ft-lbs) (ft-lbs) 1	(ft-lbs) 2	(ft-lbs) 3	(ft-lbs) Ave	Min	Lateral Expansion (in.) (in.) 1	(in.) 2	(in.) 3	(in.) Ave	(in.) Min	Shear (%) (%) 1	(%) 2	(%) 3	(%) Ave	Min	Temp (°F)	Size
8503696-03	1	2.45	H-L	31.3	35.0	76.0	47.4	25											-40	7.5mm
			H-L	67.5	42.1	155.5	88.4	25											-50	10mm
			H-L	65.2	99.3	109.1	91.2	25											-40	10mm
			H-L	102.7	70.0	147.6	106.8	25											-50	7.5mm
8503696-04	3	7.35	H-L	31.3	35.0	76.0	47.4	25											-40	7.5mm
			H-L	67.5	42.1	155.5	88.4	25											-50	10mm
			H-L	65.2	99.3	109.1	91.2	25											-40	10mm
			H-L	102.7	70.0	147.6	106.8	25											-50	7.5mm

HOT ROLLED STEEL
REDUCTION RATIO=16.00

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 as-rolled, unless otherwise noted in Specification. For Mexico shipments:nhc-SalesMX@Nucor.com
Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+((Cr+Mo+V)/5)+((Cu+Ni)/15)
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B
Melted and Manufactured in the USA. ISO 9001:2008 certified (#010940) by SRI Quality System Registrar (#0985-09). PED 97/23/EC 7/2 Annex 1, Para. 4.3 Compliant.
DIN 50049 3.1.B/EN 10204 3.1B(2004), DIN EN 10204 3.1(2005) compliant. For ABS grades only, Quality Assurance certificate 14-MMPQA-723

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.

T. A. Depretis

T. A. Depretis, Metallurgist

6/12/2018 2:17:06 PM