



New Castle Stainless Plate, LLC

# Certificate of Analysis and Tests

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OUR ORDER 0298042 - 11

HEAT & PIECE 865103-4A 02/07/19

SOLD TO: SANDMEYER STEEL COMPANY  
ONE SANDMEYER LANE

SHIP TO: SANDMEYER STEEL COMPANY  
ONE SANDMEYER LANE

PHILADELPHIA

PA 19116

PHILADELPHIA

PA 19116

----- YOUR ORDER & DATE -----  
63676 11/19/18  
----- ITEM DESCRIPTION -----  
HEAT & PIECE 865103 - 4A  
WEIGHT 13521  
FINISH 1  
GRADE 410 UNS-S41000  
DIMENSIONS 3.500 X 96.000 X 138.000 EXACT

----- SPECIFICATIONS -----  
\*\*\* MFG IN NEW CASTLE, IN, USA FROM SLABS IMPORTED FROM BRITAIN  
ASTM A240-18 ASME SA240-17E ASTM A480-18A ASMESA480 17ED  
AMS 5504M EXCEPT LINE MARK 2014/68/EU ANNEX I PARA 4.3  
2014/68/EU PED #224/2017/MUC LIST HEAT/PCE/SIZE ON INVCE  
REQUIRES PRODUCT ANALYSIS NON STANDARD PROPERTIES REQD  
ASTM E112-13 NO GRIPPER MARKS  
NO WELD REPAIRS

HOT ROLLED, ANNEALED, & DESCALED  
FREE FROM MERCURY CONTAMINATION AT CURRENT DETECTION LIMITS  
ANNEALED AT 1300 DEGREES FAHRENHEIT MINIMUM.

----- MECHANICAL & OTHER TESTS -----  
HARDNESS HRBW 71  
GRAIN SIZE 7  
YIELD STRENGTH (PSI) 33225  
TENSILE STRENGTH (PSI) 74713  
INTERGRANULAR CORROSION OK  
ELONGATION % IN 2" 35.7  
REDUCTION OF AREA % 59.8  
HARDNESS RESPONSE RC 36  
THE RECORDING OF FALSE, FICTITIOUS OR FRADULENT STATEMENTS MAY BE  
PUNISHABLE AS A FELONY UNDER FEDERAL STATUTE

----- CHEMICAL COMPOSITION ----- PRODUCT ANALYSIS -----  
CARBON (C) .11 (C) .10  
MANGANESE (MN) .52 (MN) .51  
PHOSPHORUS (P) .020 (P) .007  
SULFUR (S) .001 (S) .011  
SILICON (SI) .32 (SI) .31  
CHROMIUM (CR) 12.38 (CR) 12.22  
NICKEL (NI) .22 (NI) .24  
COBALT (CO) .02 (CO) .01  
COPPER (CU) .05 (CU) .05  
MOLY (MO) .02 (MO) .02  
NITROGEN (N) .04 (N) .10  
TITANIUM (TI) .001 (TI) .001  
ALUMINUM (AL) .001 (AL) .001  
TIN (SN) .003 (SN) .001  
TANTALUM (TA) .001 (TA)

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE, SUPPLIED, AND  
TESTED IN ACCORDANCE WITH THE LISTED SPECIFICATION(S) AND THAT THE  
RESULTS OF ALL TESTS AND INSPECTIONS ARE ACCEPTABLE.

JAMES DOUBMAN, QUALITY ASSURANCE MANAGER

CERTIFICATE IN CONFORMANCE WITH EN10204-95 3.1.B/EN10204-2004 3.1

New Castle Stainless Plate, LLC  
549 West State Road 38  
New Castle, Indiana 47362