



New Castle Stainless Plate, LLC

Certificate of Analysis and Tests

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OUR ORDER 0296311 - 01

HEAT & PIECE 863644-3A 03/08/18

SOLD TO: C.F.F. SPECIALTY STEELS INC.
1840 BURLINGTON ST. E.
ONTARIO L8H 3L4

SHIP TO: CUSTOMER PICKUP
CUSTOMER PICKUP - CONTACT LIND
LPARADIS@CFFSTAINLESS.COM
CANADA 00000

YOUR ORDER & DATE	TAG#
C113803 1/26/18	1H66PC
ITEM DESCRIPTION	
HEAT & PIECE 863644 - 3A	
WEIGHT 12061	
FINISH 1	
GRADE 316L / 316	UNS-S31603 / UNS-S31600
DIMENSIONS 6.000 X 60.000 X	123.000 EXACT

SPECIFICATIONS
*** MFG IN NEW CASTLE, IN, USA
ASTM A240-17 ASME SA240-15E
NACE MRO175-2015/ISO 15156-3
NO WELD REPAIRS
ASTM A262-15 PRACTICE A
FROM SLABS IMPORTED FROM BRITAIN
ASTM A480-17 ASMESA480 15ED
NO GRIPPER MARKS
ASTM A262-15 PRACTICE E

PLATES & TEST PCS SOLUTION ANNEALED @ 1900 DEGREES FAHRENHEIT MINIMUM.
THEN WATER COOLED OR RAPIDLY COOLED BY AIR
FREE FROM MERCURY CONTAMINATION AT CURRENT DETECTION LIMITS
HOT ROLLED, ANNEALED & PICKLED (HRAP)

MECHANICAL & OTHER TESTS
HARDNESS HRBW 74
GRAIN SIZE 7
YIELD STRENGTH (PSI) 52030
TENSILE STRENGTH (PSI) 78706
INTERGRANULAR CORROSION OK
ELONGATION % IN 2" 53.6
REDUCTION OF AREA % 60.3

CHEMICAL COMPOSITION
CARBON (C) .014
MANGANESE (MN) 1.58
PHOSPHORUS (P) .026
SULFUR (S) .001
SILICON (SI) .34
CHROMIUM (CR) 16.14
NICKEL (NI) 10.14
COBALT (CO) .40
COPPER (CU) .30
MOLY (MO) 2.03
NITROGEN (N) .08
COLUMBIUM (CB) .023
TITANIUM (TI) .018
ALUMINUM (AL) .008
TIN (SN) .006
TANTALUM (TA) .003

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

James Douman

ANS