

HT # 863572-1A

New Castle Stainless Plate, LLC

1323



Certificate of Analysis and Tests

Page: 1

OUR ORDER 0295104 - 01

HEAT & PIECE 863572-1A 08/24/17

SOLD TO:

SHIP TO:

-----	YOUR ORDER & DATE	-----
S6080-P	7/20/17	
-----	ITEM DESCRIPTION	-----
HEAT & PIECE 863572 - 1A		
WEIGHT 20725		
FINISH 1		
GRADE 316L / 316		
DIMENSIONS 5.500 X 72.000 X 180.000		UNS-S31603 / UNS-S31600 EXACT

-----	SPECIFICATIONS	-----
*** MFG IN NEW CASTLE, IN, USA	FROM SLABS IMPORTED FROM BRITAIN	
AMS 5507G WITH EXCEPTIONS	AMS 5524L WITH EXCEPTIONS	
ASTM A240-16 ASME SA240-15ED	ASTM A480-15B ASMESA480 15ED	
ASTM A167-91	ASTM A262-15 PRACTICE E	
ASTM A666-15 ANN COND ONLY	ASTM A312-15 CHM&MECH ONLY	
MELTED ELECTRIC ARC METHOD	REFINED A.O.D. PROCESS	
ASTM A262-15 PRACTICE A	NACE MR0175-2015/ISO 15156-3	
NACE MR0103-2012	QQ-S-766D AMENDIII EX.P4.5.2	
NO GRIPPER MARKS	NO WELD REPAIRS	

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	73	
GRAIN SIZE	2	
YIELD STRENGTH (PSI)	47750	
TENSILE STRENGTH (PSI)	79970	
INTERGRANULAR CORROSION	OK	
ELONGATION % IN 2"	53.4	
REDUCTION OF AREA %	54.4	

-----	CHEMICAL COMPOSITION	-----
CARBON (C)	.017	
MANGANESE (MN)	1.65	
PHOSPHORUS (P)	.033	
SULFUR (S)	.001	
SILICON (SI)	.37	
CHROMIUM (CR)	16.17	
NICKEL (NI)	10.02	
COBALT (CO)	.23	
COPPER (CU)	.56	
MOLY (MO)	2.00	
NITROGEN (N)	.08	
COLUMBIUM (CB)	.039	
TITANIUM (TI)	.026	
ALUMINUM (AL)	.009	
TIN (SN)	.014	
TANTALUM (TA)	.001	

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
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 New Castle, Indiana 47392

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C232017

