

843983-3A

Outokumpu Stainless Plate, Inc.

OUTOKUMPU

Certificate of Analysis and Tests

OUR ORDER 0263313 - 18

HEAT & PIECE 843983-3A 04/22/08

SOLD TO: C.F.F. SPECIALTY STEELS INC.
1840 BURLINGTON ST. E.

SHIP TO: CALL ROAD FREIGHT
@ 1-866-317-7335 FOR P/U

HAMILTON, ONTARIO CN 00000

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----- YOUR ORDER & DATE -----

C62534 3/04/08

----- ITEM DESCRIPTION -----

HEAT & PIECE 843983 - 3A
WEIGHT 13112
FINISH 1
GRADE 304L / 304
DIMENSIONS 6.000 X 57.000 X 132.000 EXACT
UNS-S30403 / UNS-S30400

----- SPECIFICATIONS -----

*** MFG IN NEW CASTLE, IN, USA FROM SLABS IMPORTED FROM BRITAIN
ASTM A240-07 ASME SA240 07ED ASTM A480-06B ASME SA480 07E
NO GRIPPER MARKS NO WELD REPAIRS
ASTM A262-02A PRACTICE A ASTM A262-02A PRACTICE E

PLATES & TEST PCS SOLUTION ANNEALED @ 1950 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 RB 76
GRAIN SIZE 2
YIELD STRENGTH (PSI) 39410
TENSILE STRENGTH (PSI) 78940
INTERGRANULAR CORROSION OK
ELONGATION % IN 2" 57.4
REDUCTION OF AREA % 68.5

----- CHEMICAL COMPOSITION -----

CARBON (C)	.018
MANGANESE (MN)	1.79
PHOSPHORUS (P)	.031
SULFUR (S)	.001
SILICON (SI)	.32
CHROMIUM (CR)	18.21
NICKEL (NI)	8.54
COBALT (CO)	.17
COPPER (CU)	.52
MOLY (MO)	.40
NITROGEN (N)	.06
COLUMBIUM (CB)	.012
TITANIUM (TI)	.002
ALUMINUM (AL)	.005
TIN (SN)	.014
TANTALUM (TA)	.002



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

ISO 9001:2000

QMS Dept
MANAGER

JAMES DOUBMAN, QUALITY ASSURANCE

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

CRATIC

102671

James Douman

Outokumpu Stainless Plate, Inc.
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