

**OUTO
KUMPU**

Outokumpu Stainless Plate, Inc.

840315-1A
Certificate of Analysis and Tests

* RE-CERTIFICATION *

OUR ORDER 0256715 - 02

HEAT & PIECE 840315-1A 11/30/07

Stainless Plate Products, Inc.
1235 Manor Road
Coatesville PA 19320

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Coatesville PA 19320

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

S3819-I 12/05/06

HEAT & PIECE 840315 - 1A		ITEM DESCRIPTION
WEIGHT	18026	
FINISH	1	
GRADE	304L / 304	UNS-S30403 / UNS-S30400
DIMENSIONS	5.000 X 72.000 X	172.000 EXACT

*** MFG IN NEW CASTLE, IN, USA
AMS 5511H EXCEPT LINE MARK
ASTM A240-07 ASME SA240 07ED
ASTM A167-99(2004)
ASTM A666-03 ANN COND ONLY
MELTED ELECTRIC ARC METHOD
ASTM A262-02A PRACTICE A
NO GRIPPER MARKS

SPECIFICATIONS

FROM SLABS IMPORTED FROM BRITAIN
AMS 5513H EXCEPT LINE MARK
ASTM A480-06B ASME SA480 07E
ASTM A262-02A PRACTICE E
ASTM A312-06 CHEM&MECH ONLY
REFINED A.O.D. PROCESS
NACE MR0175-2003
NO WELD REPAIRS

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	79
GRAIN SIZE	3
YIELD STRENGTH (PSI)	42233
TENSILE STRENGTH (PSI)	82980
INTERGRANULAR CORROSION	OK
ELONGATION % IN 2"	58.5
REDUCTION OF AREA %	69.1

ISO 9001-2000
QMI Cert. #
003851

CHEMICAL COMPOSITION	
CARBON (C)	.023
MANGANESE (MN)	1.82
PHOSPHORUS (P)	.030
SULFUR (S)	.002
SILICON (SI)	.32
CHROMIUM (CR)	18.30
NICKEL (NI)	8.60
COBALT (CO)	.14
COPPER (CU)	.41
MOLY (MO)	.40
NITROGEN (N)	.07
COLUMBIUM (CB)	.022
TITANIUM (TI)	.003
ALUMINUM (AL)	.004
TIN (SN)	.014
TANTALUM (TA)	.003

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.

JAMES DOUBMAN, QUALITY ASSURANCE MANAGER

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

James Douberman
Outokumpu Stainless Plate, Inc.
P.O. Box 370
New Castle, Indiana 47362

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