

Ryerson

12/27/2007 10:18

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Fax Server

TRAVIS P.O. - S.O. - 0

841686-2A

20"

Outokumpu Stainless Plate, Inc.



Certificate of Analysis and Tests

OUR ORDER 0259815 - 33

HEAT & PIECE 841686-2A 08/21/07

SOLD TO: RYERSON - Etobicoke
161 THE WEST MALL
ETOBICOKE, ON M9C 4V8

SHIP TO: RYERSON - Etobicoke
161 THE WEST MALL
ETOBICOKE, ON M9C 4V8

YOUR ORDER & DATE

621809

6/13/07

TAG# 7581-3030

ITEM DESCRIPTION

HEAT & PIECE 841686 - 2A
WEIGHT 10731
FINISH 1
GRADE 316L / 316
DIMENSIONS 3.000 X 96.000 X

UNS-S31603 / UNS-S31600
126.000 EXACT

COUNTRY OF ORIGIN BRT

SPECIFICATIONS

*** MFG IN NEW CASTLE, IN, USA
ASME SA240 07 EDITION
ASTM A480/A480M-06B
ASTM A262-02A PRACTICE B
NO WELD REPAIRS

FROM SLABS IMPORTED FROM BRITAIN
ASTM A240-07
ASTM A262-02A PRACTICE A
NO CHEMICAL MARKS

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)

} None OK

MECHANICAL & OTHER TESTS

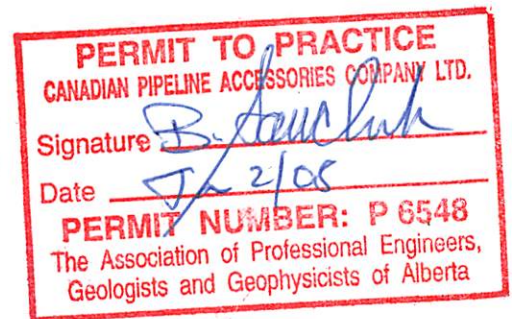
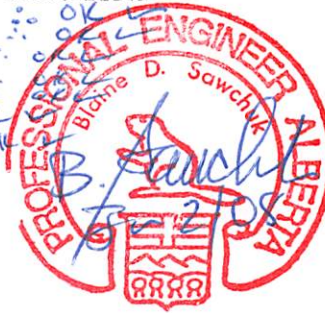
HARDNESS RB 74
GRAIN SIZE 5
YIELD STRENGTH (PSI) 42256
TENSILE STRENGTH (PSI) 82180
INTERGRANULAR CORROSION OK
ELONGATION % IN 2" 52.6
REDUCTION OF AREA % 67.7

max 22HRC = 99 RB is acceptable

CHEMICAL COMPOSITION

Table with 3 columns: Element, Symbol, and Percentage. Includes Carbon, Manganese, Phosphorus, Sulfur, Silicon, Chromium, Nickel, Cobalt, Copper, Moly, Nitrogen, Columbium, Titanium, Aluminum, Tin, and Tantalum.

Handwritten notes: 0.08 max, 2.0 max, 0.045 max, 0.04 max, 2.0 max, 16 min, 8 min.



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

Handwritten signature: James Douman