

8201043

820104-3A

ARVA INDUSTRIES INC.



AvestaPolarit, Inc.
Plate Products

Certificate of Analysis and Tests

OUR ORDER 232344 -- 05

820104-3A 4/15/03

SOLD TO: RASCO Specialty Metals, Inc.
RASCO Specialty Metals, Inc.
2140 MEADOWPINE BLVD.
MISSISSAUGA, ONT.
L5N 6H6 CANADA

SHIP TO: INTEGRIS METALS LTD. - Etobicoke
161 THE WEST MALL
ETOBICOKE, ON M9C 4V8

YOUR ORDER & DATE

200686 0/00/00

TAG# 7581-2880

HEAT & PIECE	820104 - 3A	ITEM DESCRIPTION		COUNTRY OF ORIGIN	BRT
WEIGHT	12819				
FINISH	1				
GRADE	316L / 316	UNS-S31603 / UNS-S31600			
DIMENSIONS	1.750 X 96.000 X	261.000 EXACT			

*** MFG IN NEW CASTLE, IN, USA
ASME SA240 01 ED 02 ADD
ASTM A480/A480M-01
ASTM A262-01 PRAC B
NO WELD REPAIRS

SPECIFICATIONS
FROM SLABS IMPORTED FROM BRITAIN
ASTM A240/A240M-02
ASTM A262-01 PRAC A
NO GRIPPER MARKS

PLATES & TEST PCS SOLUTION ANNEALED @ 1950 DEGREES FAHRENHEIT MINIMUM.
THEN WATER COOLED OR RAPIDLY COOLED BY AIR
FREE OF KNOWN MERCURY CONTAMINATION
HOT ROLLED, ANNEALED & PICKLED (HRAP)

MECHANICAL & OTHER TESTS

HARDNESS RB	.79
GRAIN SIZE	3
YIELD STRENGTH (PSI)	36380
TENSILE STRENGTH (PSI)	79220
INTERGRANULAR CORROSION	OK
ELONGATION % IN 2"	57.1
REDUCTION OF AREA %	70.0

CHEMICAL COMPOSITION

CARBON (C)	.014
MANGANESE (MN)	1.60
PHOSPHORUS (P)	.028
SULFUR (S)	.001
SILICON (SI)	.37
CHROMIUM (CR)	16.28
NICKEL (NI)	10.16
COBALT (CO)	.24
COPPER (CU)	.44
MOLY (MO)	2.15
NITROGEN (N)	.03
COBALT (CB)	.030
TITANIUM (TI)	.008
ALUMINUM (AL)	.006
TTN (SN)	.010

KNOWINGLY & WILLFULLY FALSIFYING OR CONCEALING A MATERIAL FACT ON THIS FORM,
OR MAKING FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS
HEREIN COULD CONSTITUTE A FELONY PUNISHABLE UNDER FEDERAL STATUTES.

JAMES DOUBMAN, QUALITY ASSURANCE MANAGER

CERTIFICATE IN CONFORMANCE WITH DIN50049 3.1.B/EN10204 3.1.B

James Douman
AvestaPolarit, Inc.
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P.O. Box 370