

252338
5400090819

VALBRUNA

SLATER STAINLESS, INC.

2400 Taylor Street West, P.O. Box 630
Fort Wayne, Indiana USA 46801
Phone: 260-434-2892 Fax: 260-434-2806

Product Certification Report

Report Number: **4641440**

Certified on Mar 16, 2011 Page 1 of 1

Order I.D. 1100133 004		Order Date 1/11/11		Commodity Code 316D4.0RT	
Dim 1 4.0000	Dim 2 .0000	Dim 3 .0000	Heat I.D. 252338	Customer I.D. 002476	Customer Purchase Order 101003050
Product Shape Rounds		Product Surface HR & Rough Turned			Customer Grade 316/316L
Length (Inches) 132.000 Min. 156.000 Max.			BSI of Lotting 413818	Weight	

Ship To

THYSSENKRUPP MATERIALS N.A.
O/A COPPER & BRASS SALES CA.
4143 101st STREET
EDMONTON, ALBERTA T6E 0A4

Sold To

VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Lifts: 0063

NACE MRO 175-05 ISO 15156 ASTM 276-08a ASTM 479-10a
ASMESA 479-07

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.016	1.54	.027	.030	.63	16.76	10.07	2.03	.44	.01	.06

BRINELL HARDNESS ASTM E10-08

HBW
169

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
85900	41000	63.0	76.5

MACRO ASTM E340-00/E381-01

MACRO
OK
OK

GRAIN SIZE ASTM E112-96

GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

ASTMA 262-10 PR E(A Utilized)

OXALIC	Etchant	Magnification X
OK	Oxalic	500

Heated to 1900F min. and water quenched (heating time & temp appropriate for optimum quality).

Chemical testing performed to one or more of the following ASTM methods: E415-08, E572-02a, E1019-08, E1085

Location of tensile fracture: inside middle of gage length.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

No mercury or low melting alloy contamination. No weld repair.

Material melted in Italy, manufactured in the United States.

Material conforms to listed specifications and is DFARS compliant.

Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes, including Federal law, Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info.

I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Dennis Hackett

Dennis Hackett

Com: Copper and Brass Sales CA

Cust: ATLANTIS INDUSTRIES

Del: 2401952150

Part:

PO: Bozo

Mat: 355 200 LR

Date: 07/10/2012

James K Baber