



VALBRUNA
SLATER STAINLESS, INC.
2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46502 USA
PHONE 260.434.2800 - FAX 260.434.2801

257212

Product Certification Report

Report Number: **4833392**

Certified on Oct 30, 2012 Page 1 of 2

Order LD. 1202409 004		Order Date 10/29/12		Commodity Code C074433			
Dim 1 3.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 257212	Customer LD. 002476	Customer Purchase Order 210003885		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 132.000 Min. 156.000 Max.		Bill of Lading # 418314	Weight				

Ship To
VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Sold To
VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Lifts: 0030 0031 0032 0039

*GRADE 1.4404	Condition A	NACE MR0175-10 ISO 15156-3
**UNS S31600/S31603	ASTMA 276-10	ASTMA 479-11
**ASMESA 479-10	EN 10272 Feb. 2008	

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.015	1.52	.031	.030	.49	16.80	10.04	2.04	.53	.10	.06

BRINELL HARDNESS ASTM E10-12

HBW
164

TENSILE PROPERTIES ASTM E8-11

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
82100	40000	44300	60.0	54.6	77.2

MACRO ASTM E340-00/E381-01

MACRO
OK

GRAIN SIZE ASTM E112-10

GRAIN SIZE	Etchant	Magnification X
5	Oxalic	100

ASTM A262-10 PR E(A Utilized)

OXALIC	Etchant	Magnification X
OK	Oxalic	500

ASTM A 262-10 (Prac E)

BEND TEST
OK

Solution annealed at 1900F min. and water quenched (heating time & temp appropriate for optimum quality).

*Material is RoHS compliant.

*Certification revised at Valbruna by D. Hackett (1/16/13).

**Certification revised at Valbruna by D. Hackett (1/23/13).

Chemical testing to one or more of the listed ASTM methods:

E415-08, E572-02a, E1019-11, E1085-95, E1086-08.

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.

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 las Title 18, Chapter 47. Consult meterial 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

email: DHeckett@valbruna.us

Dennis Hackett



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MILTON, ONTARIO L9T5Z1

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.

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