



VALBRUNA

SLATER STAINLESS, INC.

2400 Taylor Street West, P.O. Box 630
Fort Wayne, Indiana USA 46801
Phone: 260-434-2892 Fax: 260-434-2905

251145

Product Certification Report

Report Number: 4560960

Certified on Jul 12, 2010 Page 1 of 1

Order I.D. 1001333 023		Order Date 5/14/10		Commodity Code C011049			
Dim 1 3.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 251145	Customer I.D. 002476	Customer Purchase Order 005002732		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 132.000 Min. 156.000 Max.			Bill of Lading # 412404	Weight			

Ship To

VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Sold To

VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Lifts: 0039

CONDITION A NACE MRO 175-05 ISO 15156 ASTM 276-08a
ASTMA 479-08 EN 10272

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.017	1.50	.028	.030	.57	16.66	10.15	2.04	.55	.10	.07

BRINELL HARDNESS ASTM E10-08

HBW

175

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
84000	38200	41200	63.9	59.0	74.1

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

ASTM A 262-10 (Prac E)

BEND TEST

OK

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, E1085-95,
 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 9001:2000. 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

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