



**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

**255551**

**Product Certification Report**

Report Number: **4810900**

Certified on Aug 17, 2012 Page 1 of 1

Order I.D. <b>1201867 001</b>		Order Date <b>8/13/12</b>		Commodity Code			
Dim 1 <b>6.2500</b>	Dim 2 <b>.0000</b>	Dim 3 <b>.0000</b>	Heat I.D. <b>255551</b>	Customer I.D. <b>002476</b>	Customer Purchase Order <b>208003793</b>		
Product Shape <b>Rounds</b>			Product Surface <b>HR &amp; Rough Turned</b>			Customer Grade <b>316/316L</b>	
Length (Inches) <b>120.000 Min. 168.000 Max.</b>			Bill of Lading # <b>417749</b>	Weight			

*002 829*

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

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

**Lifts: 0027**

NACE MR0175-10 ISO 15156-3      ASTM 276-10      ASTM 479-11  
 ASMESA 479-10

**CHEMICAL ANALYSIS**

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.028	1.65	.027	.022	.40	16.81	10.08	2.03	.48	.09	.07

**BRINELL HARDNESS ASTM E10-12**

HBW  
 145

**TENSILE PROPERTIES ASTM E8-11**

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
82100	37300	63.6	78.5

**MACRO ASTM E340-00/E381-01**

MACRO  
 OK

**GRAIN SIZE ASTM E112-10**

GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

**ASTM A262-10 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 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.  
 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*

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