



**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

251101

**Product Certification Report**

Report Number: **4553710**

Certified on Jun 21, 2010 Page 1 of 1

Order I.D. 1001333 024		Order Date 5/14/10		Commodity Code			
Dim 1 3.7500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 251101	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 # 412268	Weight			

C012930

**Ship To**

VALBRUNA CANADA LTD.  
8724 HOLGATE CRESCENT  
MILTON, ONTARIO L9T5Z1

**Sold To**

VALBRUNA CANADA LTD.  
8724 HOLGATE CRESCENT  
MILTON, ONTARIO L9T5Z1

Lifts: 0036 0037

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

**CHEMICAL ANALYSIS**

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.010	1.68	.028	.027	.54	16.61	10.15	2.02	.66	.10	.06

BRINELL HARDNESS ASTM E10-08  
 HBW  
 172

**TENSILE PROPERTIES ASTM E8-08**

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
84000	41900	43500	61.8	57.0	77.4

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

GRAIN SIZE ASTM E112-96  
 GRAIN SIZE    Etchant    Magnification X  
 8                      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*  
 Dennis Hackett