



# 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

## Product Certification Report

Report Number: **4591890**

Certified on Oct 18, 2010 Page 1 of 1

*252161*

NPS2-80

*C019608*

Order I.D. 1002469 019	Order Date 9/13/10	Commodity Code			
Dim 1 3.7500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 252161	Customer I.D. 002476	Customer Purchase Order 009002901
Product Shape Rounds		Product Surface HR & Rough Turned			Customer Grade 316/316L
Length (Inches) 132.000 Min. 156.000 Max.		Bill of Lading # 413044	Weight		

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

*old  
1/21*

**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 Feb. 2008

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.017	1.47	.028	.030	.52	17.03	10.19	2.00	.59	.10	.06

BRINELL HARDNESS ASTM E10-08  
 HBW  
 172

TENSILE PROPERTIES ASTM E8-08

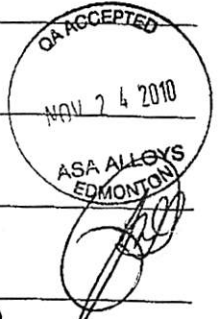
TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
82000	40500	44000	56.5	54.0	72.5

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

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  
 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