



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

424353

Report Number: 4670371

Certified on Jun 11, 2011 Page 1 of 1

Order I.D. 1100944 020	Order Date 4/04/11	Commodity Code	C039880		
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 424353	Customer I.D. 002476	Customer Purchase Order 103003174
Product Shape Rounds	Product Surface HR & Rough Turned		Customer Grade 316/316L		
Length (Inches) 120.000 Min. 168.000 Max.	Bill of Lading # 414714	Weight			

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

OK
 10/17/11

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

Lifts: 0050 0051 0052 0053
 CONDITION A
 ASTM 479-10a
 NACE MRO 175-05 ISO 15156
 *ASMESA 479-10
 ASTM 276-10
 EN 10272 Feb. 2008

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.022	1.78	.029	.030	.55	17.07	10.14	2.02	.55	.07	.07

BRINELL HARDNESS ASTM E10-08
 HBW
 171

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
85200	40300	41800	56.5	53.0	78.2

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).
 *Certification revised at Valbruna by D. Hackett (8/15/11).
 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 9001:2008. Produced in accordance with EN 10204 3.1.

SV
 MLL

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