

250619 (5.5")



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: 4517330

Certified on Mar 10, 2010 Page 1 of 1

Order I.D. 1000266 017		Order Date 1/29/10		Commodity Code		C011054	
Dim 1 5.5000	Dim 2 .0000	Dim 3 .0000	Heat I.D. 250619	Customer I.D. 002476	Customer Purchase Order 001002546		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 132.000 Min. 156.000 Max.			Bill of Lading # 411528	Weight			

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

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

Lifts: 0030 0031
 CONDITION A
 ASTM 479-08
 CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.020	1.69	.028	.027	.53	16.94	10.13	2.03	.48	.10	.07

 BRINELL HARDNESS ASTM E10-08
 HBW
 170
 TENSILE PROPERTIES ASTM E8-08

TS (PSI)	2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
82800	37500	43200	61.2	57.0	78.2

 MACRO ASTM E340-00/E381-01
 MACRO
 OK
 OK
 GRAIN SIZE ASTM E112-96
 GRAIN SIZE
 7
 ASTM 262-02a PR E(A Utilized)
 OXALIC
 OK
 ASTM A 262-02 (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