



VALBRUNA

SLATER STAINLESS, INC.
2400 Taylor Street West, P.O. Box 530
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Phone: 260-434-2892 Fax: 260-434-2305

Product Certification Report

424305

Report Number: **4651230**
029378

Certified on Apr 15, 2011 Page 1 of 1

Order ID 1100782 010		Order Date 3/14/11		Commodity Code			
Qty 1 5.2500	Qty 2 .0000	Qty 3 .0000	Heat I.D. 424305	Customer I.D. 002476	Customer Purchase Order 103003138		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (inches) 132.000 Min. 156.000 Max.			End of Lading # 414311	Weight			

Lifts: 0033

CONDITION A

NACE MRO 175-05 ISO 15156

ASTMA 276-10

ASTMA 479-10a

EN 10272 Feb. 2008

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.020	1.76	.028	.026	.56	16.79	10.28	2.04	.48	.08	.07

BRINELL HARDNESS ASTM E10-08

HBW

165

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
84100	38700	43400	60.5	47.2	76.8

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 9001:2008. 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

Deemis Hackett

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