



**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

C + B  
PO 76002  
WO 5450  
CPA-NPS 4  
SCH 40

**Product Certification Report**

Report Number: **4627431**

Certified on Feb 08, 2011 Page 1 of 1

Order I.D. <b>1100320 009</b>		Order Date <b>1/31/11</b>		Commodity Code <b>252401</b>			
Dim 1 <b>6.2500</b>	Dim 2 <b>.0000</b>	Dim 3 <b>.0000</b>	Heat No. <b>252401</b>	Customer I.D. <b>002573</b>	Customer Purchase Order <b>5400092944-R01</b>		
Product Shape <b>Rounds</b>			Product Surface <b>HR &amp; Rough Turned</b>			Customer Grade <b>316/316L</b> ✓	
Length (Inches) <b>120.000 Min. 168.000 Max.</b>			Bill of Lading # <b>413783</b>	Weight			

Ship To

Attention: TKX LOGISTICS  
COPPER AND BRASS SALES  
8001 THYSSENKRUPP PARKWAY  
NORTHWOOD, OH 43619

Sold To

VALBRUNA STAINLESS, INC.  
2400 TAYLOR STREET WEST  
FORT WAYNE, IN 46802

*[Handwritten signature]*

Lifts: 0022

\*NACE MR0175-03  
AMS 5648K

ASTMA 276-08a  
AMS 5653F

ASTMA 479-10a

**CHEMICAL ANALYSIS**

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.022	1.78	.030	.028	.39	17.00	10.05	2.02	.41	.11	.06

**BRINELL HARDNESS ASTM E10-08**

HBW  
169

**TENSILE PROPERTIES ASTM E8-08**

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
83200	36200	63.6	79.9

**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

No mercury or low melting alloy contamination. Continuous carbide and intergranular corrosion test OK. MAXX stainless.

\*Certification revised at Valbruna by D. Hackett (7/28/11).

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.

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

*[Handwritten signature: Dennis Hackett]*

Dennis Hackett

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8/4/11