



VALBRUNA
SLATER STAINLESS, INC.
 2400 Taylor Street West, P.O. Box 630
 Fort Wayne, Indiana USA 46801
 Phone: 260-434-2892 Fax: 260-434-2805

254915

Product Certification Report

Report Number: 4763711

Certified on Mar 13, 2012 Page 1 of 2

Order I.D. 1103121 009		Order Date 12/12/11		Commodity Code			
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 254915	Customer I.D. 001801	Customer Purchase Order 5400123640-R02		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 120.000 Min. 168.000 Max.			Bill of Lading # 415894	Weight			

Ship To

**COPPER AND BRASS SALES
 5230 ASHLAND WAY
 FRANKLIN, WI 53132**

Sold To

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

Lifts: 0041

CONDITION A	EN 10204 DTD 1991 3.1	*NACE MR0175-10 ISO 15156-3
QQ-S-763F	ASTMA 276-10	ASTMA 479-11
ASMESA 479-10	AMS 5653G	AMS 5648L
SAE-AMS QQ-S-763B		

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.016	1.67	.031	.026	.45	16.96	10.06	2.02	.41	.09	.060

BRINELL HARDNESS ASTM E10-08

HBW
154

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
80600	35500	67.6	78.4

MACRO ASTM E340-00/E381-01

MACRO
OK
OK

GRAIN SIZE ASTM E112-10

GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

ASTMA 262-10 PR E(A Utilized)

OXALIC	Etchant	Magnification X
OK	Oxalic	500

Free of mercury and low melting alloy contamination.
 Heated to 1900F min. and water quenched (heating time & temp appropriate for optimum quality).
 No welding or weld repair done.

*Certification revised at Valbruna by D. Hackett (6/29/12).
 Chemical testing to one or more of the listed ASTM methods: E415-08, E572-02a, E1019-08, E1085-95, E1086-08
 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.

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

**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: 4763711****Certified on Mar 13, 2012 Page 2 of 2**

Order I.D. 1103121 009		Order Date 12/12/11		Commodity Code			
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 254915	Customer I.D. 001801	Customer Purchase Order 5400123640-R02		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 120.000 Min. 168.000 Max.			Bill of Lading # 415894	Weight			

Ship To

COPPER AND BRASS SALES
5230 ASHLAND WAY
FRANKLIN, WI 53132

Sold To

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

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



Dennis Hackett