



VALBRUNA
 SLATER STAINLESS, INC.
 2400 TAYLOR STREET WEST - PO BOX 630
 FORT WAYNE IN 46802 USA
 PHONE 260.434.2800 - FAX 260.434.2801

3" TBR.
 253915

Product Certification Report

Report Number: **4741861**

Certified on Jan 16, 2012 Page 1 of 1

Order I.D. 1102693 001		Order Date 10/28/11		Commodity Code			
Dim 1 3.1250	Dim 2 .0000	Dim 3 .0000	Heat I.D. 253915	Customer I.D. 002573	Customer Purchase Order 5400121767-R02		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 132.000 Min. 156.000 Max.			Bill of Lading # 416238	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

Lifts: 0035

CONDITION A *NACE MR0175-10 ISO 15156-3 ASTMA 276-10
 ASMESA 479-10

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.011	1.52	.030	.030	.53	16.87	10.03	2.03	.55	.11	.06

BRINELL HARDNESS ASTM E10-08

HBW
 184

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
86700	40100	57.0	74.9

MACRO ASTM E340-00/E381-01

MACRO
 OK
 OK

GRAIN SIZE ASTM E112-10

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.

*Certification revised at Valbruna by D. Hackett (12/11/12).

Chemical testing performed to one or more of the following ASTM methods: E415-08, E572-02a, E1019-08, E1085.

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 las Title 18, Chapter 47. Consult meterial 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

email: DHackett@valbruna.us

Dennis Hackett