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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

255066

Product Certification Report

Report Number: **4737260**

Certified on Jan 02, 2012 Page 1 of 2

Order I.D. 1103033 002		Order Date 12/01/11		Commodity Code			
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 255066	Customer I.D. 002474	Customer Purchase Order 31898		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (inches) 120.000 Min. 168.000 Max.			Bill of Lading # 416170	Weight			

6x10
1x9

Ship To
 VALBRUNA STAINLESS, INC.
 13950 BENSON AVENUE
 CHINO, CA 91710

*oh
2/23/12*

Sold To
 VALBRUNA CORP.
 31 IRON HORSE ROAD
 OAKLAND, NJ 07436

Lifts: 0035

MIL-S-7720A AMEND 1 XCPT Cu	MIL-S-862B	NACE MRO175-10	ISO 15156-3
UNS S31600/S31603		ASTMA 182-10	Chem Only
ASTMA 193-10a	ASTMA 276-10	ASTMA 320-10	chem only
ASTMA 479-10a	ASTMA 484-10	ASMESA 182 10	ED Chem Only
ASMESA 193 07 ED	ASMESA 479-10	ASMESA 484 10	ED
AMS 5648K	AMS 5653G	SAR-AMS QQ-S-763B	

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.015	1.83	.028	.027	.38	16.99	10.00	2.03	.53	.09	.06

BRINELL HARDNESS ASTM E10-08

HBW
140

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
82000	35600	63.2	78.5

MACRO ASTM E340-00/E381-01

MACRO
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

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.
 Electric Furnace melted; AOD refined.
 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.

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 Hackell
 Dennis Hackell

*SV
MC*

From: Copper and Brass Sales

Part: COPPER AND BRASS VANCOUVER Del: 2401704080

Wgt: 2,602.000 LB Date: 02/16/2012

Rush D. Will



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13950 BENSON AVENUE
CHINO, CA 91710

Sold To
VALBRUNA CORP.
31 IRON HORSE ROAD
OAKLAND, NJ 07436

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.

SV
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Manager Laboratory Services

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