

424772



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

Product Certification Report

Report Number: 4716680

Certified on Oct 26, 2011 Page 1 of 2

Order I.D. 1101904 003		Order Date 7/25/11		Commodity Code 316D5.0	
Dim 1 5.0000	Dim 2 .0000	Dim 3 .0000	Heat I.D. 424772	Customer I.D. 002474	Customer Purchase Order 30929
Product Shape Rounds			Product Surface HR & Rough Turned		Customer Grade 316/316L
Length (inches) 132.000 Min. 156.000 Max.			Bill of Lading # 415723	Weight	

Ship To

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

Sold To

VALBRUNA CORP.
31 IRON HORSE ROAD
OAKLAND, NJ 07436

Lifts: 0050

MIL-S-7720A AMEND 1 XCPT Cu	MIL-S-862B	NACE MR0175-10 ISO 15156-3
UNS S31600/S31603		ASTMA 182-10 Chem Only
ASTMA 193-09	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	SAE-AMS QQ-S-763B

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.020	1.76	.029	.024	.63	16.50	10.07	2.04	.63	.07	.08

BRINELL HARDNESS ASTM E10-08

HBW
171

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
84400	39000	60.0	78.7

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	100

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.

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

Copper and Brass Sales Division Sold To:

Customer: *M2M*
 Your PO#: *2012-110*
 CBS Order #: *1*
 Quantity: *420073*
 Date: *10/26/11*
 By: *Alysic Compton*
 Quality Check



VALBRUNA

SLATER STAINLESS, INC.
2400 Taylor Street West, P.O. Box 630
Fort Wayne, Indiana USA 46801
Phone: 260-434-2882 Fax: 260-434-2906

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Certified on Oct 26, 2011 Page 2 of 2

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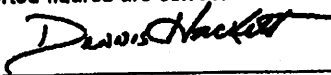
Ship To | **VALBRUNA STAINLESS, INC.**
13950 BENSON AVENUE
CHINO, CA 91710

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

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.

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Manager Laboratory Services



Dennis Hackett