

252153



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: **4659400**

Certified on May 10, 2011 Page 1 of 2

Order ID. 1100731 008		Order Date 3/09/11		Commodity Code		
Dim 1 3.7500	Dim 2 .0000	Dim 3 .0000	Heat ID. 252153	Customer ID. 002474	Customer Purchase Order 29740	
Product Shape Rounds			Product Surface HR & Rough Turned		Customer Grade 304/304L	
Length (Inches) 132.000 Min. 156.000 Max.			Bill of Lading # 414484	Weight		

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

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

Lifts: 0067 0068

MIL-S-862B

NACE MRO 175-05 ISO 15156

UNS S30400 and S30403

ASTMA 276-10

ASTMA 182-09a Chem Only

ASTMA 193-09

ASMESA 182 07 ED Chem Only

ASTMA 479-10a

ASTMA 484-09

ASMESA 479-07

ASMESA 193 07 ED

ASMESA 320 01 ED 2002 ADD

ASTMA 320-08 GR B8

AMS 5639H

AMS 5647E

SAE-AMS QQ-S-763B

ASTM A314-08

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.015	1.87	.027	.027	.55	18.05	8.02	.48	.38	.09	.09

BRINELL HARDNESS ASTM E10-08

HBW
182

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
86300	39500	61.5	79.0

MACRO ASTM E340-00/E381-01

MACRO
OK
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

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.

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

Demis Hackett
Demis Hackett

ThyssenKrupp Materials NA, Inc.
Copper and Brass Sales Division Sold To:

Customer: *MZM*
Your PO#: *2013-208*
CBS Order #: *20082910178*
Quantity: *1*
Date: *1/4/2013*

By: *Alycie Compton*
Quality Check

**VALBRUNA****SLATER STAINLESS, INC.**2400 Taylor Street West, P.O. Box 630
Fort Wayne, Indiana USA 46801
Phone: 260-434-2892 Fax: 260-434-2906**Product Certification Report****Report Number: 4659400**

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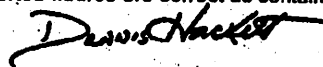
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Sold To
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OAKLAND, NJ 07436

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.

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Manager Laboratory Services



Dennis Hackett