

# HT# 426957



## VALBRUNA

SLATER STAINLESS, INC.

2400 TAYLOR STREET WEST - PO BOX 630  
FORT WAYNE IN 46802 USA  
PHONE 260 434 2600 - FAX 260 434 2601

### Product Certification Report

Report Number: **5339931**

Certified on Jun 12, 2017 Page 1 of 1

Order I.D.	Order Date	Commodity Code			
1701114 001	5/16/17	SSRD00372			
Dim 1	Dim 2	Dim 3	Heat I.D.	Customer I.D.	Customer Purchase Order
6.2500	.0000	.0000	426957	002573	5400351946
Product Shape		Product Surface			Customer Grade
Rounds		HR & Rough Turned			316/316L
Length (Inches)		Bill of Lading #		Weight	
120.000 Min. 168.000 Max.		429830			

**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: 0061

\*NACE MR0175/ISO 15156-3 2015 \*NACE MR0103-2015 ASTMA 276-16a  
 ASTMA 479-16a AMS 5648M AMS 5653H

#### CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.019	1.70	.029	.026	.56	16.85	10.05	2.10	.63	.08	.077

BRINELL Type A device E10-15a

HBW  
158

#### ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
83200	36800	69.2	83.1

#### MACRO ASTM E340-15/E381-01(12)

MACRO  
OK

#### GRAIN SIZE ASTM E112-13

GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

#### ASTM A262-15 PR E(A Utilized)

OXALIC	Structure	Etchant	Magnification X	QUENCH	SENS(F)	SENS(HR)
OK	Step	Oxalic	500	Air	1200	1.50

No mercury or low melting alloy contamination. Continuous carbide and intergranular corrosion test OK. Material is RoHS compliant.

Solution annealed at 1900F min. and water quenched (heating time & temp appropriate for optimum quality).

\*Revised 11/30/17. rlk

Chemical testing to one or more of the listed ASTM methods:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

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. DFARS compliant. Our heat treat furnaces use air atmosphere.

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

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Tad Landwehr