



# VALBRUNA

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

## Product Certification Report

Report Number: **5490582**

Certified on May 01, 2018 Page 1 of 1

Order I.D. <b>OA18001507 0020</b>	Order Date <b>4/02/18</b>	Commodity Code <b>316D4.0RT</b>	
Dim 1 <b>4.0000</b>	Dim 2 <b>.0000</b>	Heat I.D. <b>273577</b>	Customer I.D. <b>0008000033</b>
Product Shape <b>Round</b>		Product Surface <b>HR &amp; Rough Turned</b>	Customer Purchase Order <b>801006825</b>
Customer Grade <b>316/316L</b>		Length (Inches) <b>132.000 Min. 156.000 Max.</b>	Weight <b>002284 LBS</b>

**Ship To**  
VALBRUNA CANADA LTD  
8724 HOLGATE CRESCENT  
MILTON, ONTARIO, L9T 5Z1

**Sold To**  
VALBRUNA CANADA LTD  
8724 HOLGATE CRESCENT  
MILTON, ONTARIO, NN L9T 5Z1

### Lifts: 0074

Condition A	NACE MR0175/ISO 15156-3 2015	NACE MR0103-2015
QQ-S-763F	ASTMA 276-17	ASTMA 479-18
ASMESA 182 13 Chem Only	ASMESA 479-13	AMS 5648M
AMS 5653H	EN 10272 Feb. 2008	

### CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.017	1.51	.028	.025	.49	16.74	10.15	2.02	.53	.12	.080

BRINELL Type A device E10-15a

HBW  
159

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

ASTM A262-15 E 180deg, .25" dia

BEND TEST	QUENCH	SENS(F)	SENS(HR)
OK	Air	1250	1.50

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

\*ASTM E8: TN-83500 psi; YS-37900 psi; El(4xD)-57.0; RA-72.9

\*Cert revised @ VSSI by A.Asiala 05/20/2021

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

E1019-11, E1086-14.

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 9001:2015. 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

email: AAsiala@valbruna.us

Annmarie C Asiala

ANS