



**VALBRUNA**

SLATER STAINLESS, INC.  
2400 TAYLOR STREET WEST - PO BOX 630  
FORT WAYNE IN 46802 USA  
PHONE 260.434.2800 - FAX 260.434.2801

Report Number: **5379620**

Certified on Sep 22, 2017 Page 1 of 2

*C193764*

Order I.D.	Order Date	Commodity Code	
1700913 014	4/27/17		
Dim 1	Dim 2	Dim 3	Heat I.D.
6.2500	.0000	.0000	272923
Customer I.D.		Customer Purchase Order	
002476		704006330	
Product Shape	Product Surface		Customer Grade
Rounds	HR & Rough Turned		316/316L
Length (Inches)	Bill of Lading #	Weight	
120.000 Min.	168.000 Max.	430564	
			Melt Date: 2/27/17

*Ship To*  
VALBRUNA CANADA LTD.  
8724 HOLGATE CRESCENT  
MILTON, ONTARIO L9T5Z1

*Sold To*  
VALBRUNA CANADA LTD.  
8724 HOLGATE CRESCENT  
MILTON, ONTARIO L9T5Z1

**Lifts: 0028**

Condition A	NACE MR0175/ISO 15156-3 2009	NACE MR0103-2012
QQ-S-763E	ASTMA 276-17	ASTMA 479-17
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
.014	1.75	.029	.028	.53	16.64	10.01	2.00	.50	.15	.079

BRINELL Type A device E10-15a

HBW  
146

ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL (4d)	%EL(5d)	%RA
81900	37800	42600	57.2	52.6	79.9

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

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

BEND TEST	QUENCH	SENS (F)	SENS (HR)
OK	Air	1200	1.50

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

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: *Tad Landwehr*  
email: TLandwehr@valbruna.us Tad Landwehr

*ANS*



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Order I.D.	Order Date	Commodity Code				C193704
1700913 014	4/27/17					
Dim 1	Dim 2	Dim 3	Heat I.D.	Customer I.D.	Customer Purchase Order	
6.2500	.0000	.0000	272923	002476	704006330	
Product Shape		Product Surface			Customer Grade	
Rounds		HR & Rough Turned			316/316L	
Length (Inches)		Bill of Lading #		Weight		
120.000 Min.		168.000 Max.		430564		
						Melt Date: 2/27/17

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Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.

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Manager Laboratory Services *Tad E Landwehr*  
email: TLandwehr@valbruna.us Tad Landwehr