

C171373



VALBRUNA
SLATER STAINLESS, INC.
2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2500 - FAX 260.434.2501

Product Certification Report

Report Number: **5262250**

Certified on Nov 16, 2016 Page 1 of 2

Order I.D. 1601886 005		Order Date 11/10/16		Commodity Code			
Dim 1 3.7500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 270068	Customer I.D. 002476	Customer Purchase Order 611006063		
Product Shape Rounds			Product Surface HR & Rough Turned		Customer Grade 316/316L		
Length (Inches) 132.000 Min. 156.000 Max.			Bill of Lading # 428155	Weight		Melt Date: 3/14/16	

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

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

Lifts: 0082

Condition A	NACE MR0175/ISO 15156-3 2009	NACE MR0103-2012
QQ-S-763E	ASTMA 276-16a	ASTMA 479-16
ASMESA 182 13 Chem Only	ASMESA 479-13	AMS 5648L
AMS 5653H	EN 10272 Feb. 2008	

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.016	1.38	.030	.025	.62	16.50	10.15	2.05	.30	.13	.069

BRINELL (Type A device) (E-10)
HBW
150

ROOM TEMP TENSILE ASTM E8-16a						
TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA	
80600	34500	39600	60.2	55.8	72.8	

MACRO ASTM E340-15/E381-01
MACRO
OK

GRAIN SIZE ASTM E112-13		
GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

ASTM A262-14 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	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:

E415-14, 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 *Dennis Hackett*
Dennis Hackett

email: DHackett@valbruna.us



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

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