



VALBRUNA

SLATER STAINLESS, INC.

2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46822 USA
PHONE 260.434.2900 - FAX 260.434.2801

261454 - 3.75

Product Certification Report

Report Number: 5007160

Certified on May 28, 2014 Page 1 of 2

Order I.D. 1400530 005	Order Date 2/19/14	Commodity Code			
Dim 1 3.7500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 261454	Customer I.D. 002476	Customer Purchase Order 402004642
Product Shape Rounds		Product Surface HR & Rough Turned			Customer Grade 316/316L
Length (Inches) 192.000 Min. 216.000 Max.		Bill of Lading # 421977	Weight		

Ship To

ASA ALLOYS
20 CHALLENGER CRESENT
SHERWOOD PARK, ALBE TSH 2R1

Sold To

VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Lifts: 0076

Condition A	✓ NACE MR0175/ISO 15156-3 2009	NACE MR0103-2010
QQ-S-763E	ASTMA 276-13a	ASTMA 479-13b
ASMESA 182 13 Chem Only	AMS 5648L	AMS 5653H
EN 10272 Feb, 2008		

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.018	1.48	.030	.030	.60	16.79	10.15	2.00	.48	.17	.07

BRINELL HARDNESS ASTM E10-12

HBW
160

TENSILE PROPERTIES ASTM E8-13a

TS (PSI)	.2%YS (PSI)	1%Y.S. (PSI)	%EL(2")	%EL(5d)	%RA
82700	36900	37700	61.6	58.0	76.7

MACRO ASTM E340-00/E381-01

MACRO
OK

GRAIN SIZE ASTM E112-12

GRAIN SIZE	Etchant	Magnification X
6	Oxalic	100

ASTM A262-13 PR E(A Utilized)

OXALIC	Etchant	Magnification X
OK	Oxalic	500

ASTM A 262 (Prac E) 180deg,
BEND TEST
OK

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, E572-13, E1019-11, E1085-09, E1086-14.
Location of tensile fracture: inside middle of gage length.
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 and is DFARS compliant.

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

C106712



VALBRUNA

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

Product Certification Report

Report Number: **5007160**

Certified on May 28, 2014 Page 2 of 2

Order I.D. 1400530 005		Order Date 2/19/14		Commodity Code			
Dim 1 3.7500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 261454	Customer I.D. 002476	Customer Purchase Order 402004642		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 192.000 Min. 216.000 Max.			Bill of Lading # 421977	Weight			

Ship To
ASA ALLOYS
20 CHALLENGER CRESENT
SHERWOOD PARK, ALBE T8H 2R1

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

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 *Dennis Hackett*
email: DHackett@valbruna.us Dennis Hackett