



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

**Product Certification Report**

Report Number: **5372981**

Certified on Sep 11, 2017 Page 1 of 2

Order I.D. <b>1701944 001</b>	Order Date <b>9/05/17</b>	Commodity Code			
Dim 1 <b>6.2500</b>	Dim 2 <b>.0000</b>	Dim 3 <b>.0000</b>	Heat I.D. <b>272923</b>	Customer I.D. <b>002476</b>	Customer Purchase Order <b>709006593</b>
Product Shape <b>Rounds</b>		Product Surface <b>HR &amp; Rough Turned</b>			Customer Grade <b>316/316L</b>
Length (Inches) <b>132.000 Min. 156.000 Max.</b>		Bill of Lading # <b>430518</b>	Weight <b>Melt Date: 2/27/17</b>		

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

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

**Lifts: 0033**

Condition A	Mils-7720A AM 1(316)ex Cu .75	NACE MR0175/ISO 15156-3 2015
QQ-S-763F	UNS S31600/S31603	ASTMA 182-16a Chem Only
ASTMA 276-17	ASTMA 479-17	ASTMA 484-16
ASMESA 182 13 Chem Only	ASMESA 479-13	ASTMA 193-16 B8
ASMESA 193 13 B8 except 7.3.1	ASTMA 182-16a chem only	ASTMA 276-17
ASTMA 479-17	AMS 5648M	AMS 5653H
ASTMA 193-16 B8M	ASMESA193 13 xcpt7.3.1	SAE-AMS QQ-S-763D

**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  
HEW  
146

ROOM TEMP TENSILE ASTM E8-16a  
TS (PSI) .2%YS (PSI) %EL (4d) %RA  
82100 37900 56.7 79.2

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

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

09/06/17



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

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