

**Product Certification Report**

Report Number: **4258630**



**VALBRUNA**  
**SLATER STAINLESS, INC.**  
 2400 Taylor Street West, P.O. Box 630  
 Fort Wayne, Indiana USA 46801  
 Phone: 260-434-2892 Fax: 260-434-2905

*419294*

Certified on Feb 20, 2007 Page 1 of 1

|  |                                      |                          |   |                            |                                    |
|--|--------------------------------------|--------------------------|---|----------------------------|------------------------------------|
| Order I.D.<br>0602579 001                    | Order Date<br>8/30/06                | Commodity Code<br>509362 | Customer Purchase Order<br><i>R 365</i> |                            |                                    |
| Dim 1<br>5.2500                              | Dim 2<br>.0000                       | Dim 3<br>.0000           | Heat I.D.<br>419294                     | Customer I.D.<br>001296    | Customer Purchase Order<br>P922010 |
| Product Shape<br>Rounds                      | Product Surface<br>HR & Rough Turned |                          |   | Customer Grade<br>316/316L |                                    |
| Length (Inches)<br>132.000 Min. 156.000 Max. | Bill of Lading #<br>405021           | Weight                   |   |                            |                                    |

**Ship To**  
 EARLE M. JORGENSEN CO.  
 1900 MITCHELL BLVD.  
 SCHAUMBURG, IL 60193

**Sold To**  
 VALBRUNA STAINLESS, INC.  
 2400 TAYLOR STREET WEST  
 FORT WAYNE, IN 46802

Lifts: 0028 0029

|              |               |              |
|--------------|---------------|--------------|
| CONDITION A  | QQS 763 F     | ASTMA 276-06 |
| ASTMA 479-05 | ASMESA 479 04 | AMS 5648K    |
| AMS 5653F    |               |              |

**CHEMICAL ANALYSIS**

| C    | Mn   | P    | S    | Si  | Cr    | Ni    | Mo   | Cu  | Co  | N   |
|------|------|------|------|-----|-------|-------|------|-----|-----|-----|
| .019 | 1.76 | .026 | .025 | .49 | 16.85 | 10.26 | 2.05 | .62 | .08 | .08 |
| HB   |      |      |      |     |       |       |      |     |     |     |
| 169  |      |      |      |     |       |       |      |     |     |     |

**TENSILE PROPERTIES**

| TS (PSI) | .2%YS (PSI) | %EL(2") | %RA  |
|----------|-------------|---------|------|
| 86200    | 41700       | 58.0    | 71.4 |

MACRO ASTM E340/E381

MACRO  
OK  
OK

**GRAIN SIZE ASTM E112**

GRAIN SIZE  
8

ASTM A 262 PRAC E(A Utilized)

OXALIC  
OK

No mercury or low melting alloy contamination. Continuous carbide and intergranular corrosion test OK.  
 No welding or weld repair done.  
 Heated to 1900F min. and water quenched (heating time & temp appropriate for optimum quality).  
 Material meets the ordered requirements of 316 and 316L.  
 Chemical testing performed to one or several of the following ASTM methods: E415, E572, E1019, E1085, E1086.  
 No mercury or low melting alloy contamination. No weld repair.  
 Material melted in Italy, manufactured in the United States.  
 Material conforms to listed specifications.  
 Quality system is compliant with ISO 9001:2000. Produced in accordance with EN 10204 3.1B.

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*

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