



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

Product Certification Report

255271

Report Number: 4737510

Certified on Jan 02, 2012 Page 1 of 1

| | | | | | | | |
|--|----------------|-----------------------|--------------------------------------|---------------------------|--------------------------------------|----------------------------|--|
| Order I.D. 1102441 007 | | Order Date 9/30/11 | | Commodity Code C045784 | | | |
| Dim 1 8.0000 | Dim 2 .0000 | Dim 3 .0000 | Heat I.D. 255271 | Customer I.D. 002476 | Customer Purchase Order 109003370 | | |
| Product Shape Rounds | | | Product Surface HR & Rough Turned | | | Customer Grade 316/316L | |
| Length (Inches) 168.000 Min. 216.000 Max. | | | Bill of Lading # 413368 | Weight | | | |

Ship To

VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Sold To

VALBRUNA CANADA LTD.
8724 HOLGATE CRESCENT
MILTON, ONTARIO L9T5Z1

Lifts: 0040

NACE MR0175-10 ISO 15156-3 ASTMA 276-10 ASTMA 479-10a
ASMESA 479-10

CHEMICAL ANALYSIS

| C | Mn | P | S | Si | Cr | Ni | Mo | Cu | Co | N |
|------|------|------|------|-----|-------|-------|------|-----|-----|-----|
| .015 | 1.73 | .030 | .026 | .48 | 16.89 | 10.01 | 2.07 | .45 | .09 | .06 |

BRINELL HARDNESS ASTM E10-08

HBW
165

TENSILE PROPERTIES ASTM E8-08

| TS (PSI) | .2%YS (PSI) | %EL(2") | %RA |
|----------|-------------|---------|------|
| 80400 | 34100 | 66.2 | 76.7 |

MACRO ASTM E340-00/E381-01

MACRO
OK

GRAIN SIZE ASTM E112-96

| GRAIN SIZE | Etchant | Magnification X |
|------------|---------|-----------------|
| 7 | Oxalic | 100 |

ASTMA 262-10 PR E(A Utilized)

| OXALIC | Etchant | Magnification X |
|--------|---------|-----------------|
| OK | Oxalic | 500 |

Heated to 1900F min. and water quenched (heating time & temp appropriate for optimum quality).

Chemical testing performed to one or more of the following ASTM methods: E415-08, E572-02a, E1019-08, E1085-95,

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.

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

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