



**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**

Report Number: **4554711**

Certified on Jun 22, 2010 Page 1 of 2

*W05450 \* Reference CPA PO 1530 \*  
45CL 80*

*2 PCS SN 099  
100*

**250619 (6.25")**

Order I.D. 1001673 014	Order Date 6/14/10	Commodity Code			
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 250619	Customer I.D. 002474	Customer Purchase Order 27457
Product Shape Rounds			Product Surface HR & Rough Turned		Customer Grade 316/316L
Length (Inches) 120.000 Min. 168.000 Max.			Bill of Lading # 412274	Weight	

**Ship To**  
VALBRUNA STAINLESS, INC.  
13950 BENSON AVENUE  
CHINO, CA 91710

**Sold To**  
VALBRUNA CORP.  
31 IRON HORSE ROAD  
OAKLAND, NJ 07436

**Lifts: 0060 0062**

MIL-S-7720A AMEND 1 XCPT Cu  
UNS S31600/S31603  
ASTMA 276-08a  
ASTMA 484-08  
ASMESA 479-07  
AMS 5653F

MIL-S-862B  
ASTMA 182-09a Chem Only  
ASTMA 320-08  
ASMESA 182 07 ED Chem Only  
ASMESA 484 07 ED  
SAE-AMS QQ-S-763B

**\*NACE MRO 175-03** ISO 15156  
ASTMA 193-09  
ASTMA 479-08  
ASMESA 193 07 ED  
AMS 5648K

**CHEMICAL ANALYSIS**

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.020	1.69	.028	.027	.53	16.94	10.13	2.03	.48	.10	.07

**BRINELL HARDNESS ASTM E10-08**

HBW  
168

**TENSILE PROPERTIES ASTM E8-08**

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
84300	36800	64.3	76.7

**MACRO ASTM E340-00/E381-01**

MACRO  
OK  
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

Free of mercury and low melting alloy contamination.

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

No welding or weld repair done.

Electric Furnace melted; AOD refined.

\*Certification revised at Valbruna by D. Hackett (7/25/11).

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.

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



**VALBRUNA**

**SLATER STAINLESS, INC.**  
2400 Taylor Street West, P.O. Box 630  
Fort Wayne, Indiana USA 46801  
Phone: 260-434-2892 Fax: 260-434-2805

**Product Certification Report**

**Report Number: 4554711**

**Certified on Jun 22, 2010 Page 2 of 2**

Order I.D. <b>1001673 014</b>		Order Date <b>6/14/10</b>		Commodity Code			
Dim 1 <b>6.2500</b>	Dim 2 <b>.0000</b>	Dim 3 <b>.0000</b>	Heat I.D. <b>250619</b>	Customer I.D. <b>002474</b>	Customer Purchase Order <b>27457</b>		
Product Shape <b>Rounds</b>			Product Surface <b>HR &amp; Rough Turned</b>			Customer Grade <b>316/316L</b>	
Length (Inches) <b>120.000 Min. 168.000 Max.</b>			Bill of Lading # <b>412274</b>	Weight			

*Ship To*

**VALBRUNA STAINLESS, INC.**  
**13950 BENSON AVENUE**  
**CHINO, CA 91710**

*Sold To*

**VALBRUNA CORP.**  
**31 IRON HORSE ROAD**  
**OAKLAND, NJ 07436**

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 9001:2000. 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