

424303.

CTB #0 76481 W05539 CPA 3-80

86.375"



VALBRUNA  
SLAYER STAINLESS, INC.  
2480 Taylor Street West, P.O. Box 650  
Fort Wayne, Indiana USA 46804  
Phone: 260-434-2592 Fax: 260-434-2506

Product Certification Report

Report Number: 4683010

Certified on Jul 16, 2011 Page 1 of 1

Order I.D. 1101657 001	Order Date 6/24/11	Commodity Code
Qty 1 5.2500	Qty 2 .0000	Qty 3 .0000
Material I.D. 424303	Customer I.D. 002471	Customer Purchase Order 30710
Product Shape Rounds	Product Surface HR & Rough Turned	Dimensional Grade 316/316L
Length (inch) 132.000 Min. 156.000 Max.	URI of Lotting ID 415013	Weight

Ship To  
VALBRUNA STAINLESS, INC  
4747 OATES ROAD  
HOUSTON, TX 77013

*Handwritten:* OK  
10/24/11

Sold To  
VALBRUNA STAINLESS, INC.  
4747 OATES ROAD  
HOUSTON, TX. 77013

Lifts: 0010 0013 0017 0018

MIL-S-7720A AMEND 1 XCEPT Cu	MIL-S-862B	NACE MR0 175-05	ISO 15156
UNS S31600/S31603		ASTMA 182-10 Chem Only	
ASTMA 193-09	ASTMA 276-10	ASTMA 320-08	
ASTMA 479-10a	ASTMA 484-09	ASMESA 182 07 ED Chem Only	
ASMESA 193 07 ED	ASMESA 479-10	ASMESA 484 07 ED	
AMS 5648K	AMS 5653F	SAB-AMS QQ-S-763B	

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.024	1.75	.028	.029	.58	16.87	10.37	2.04	.55	.07	.08

BRINELL HARDNESS ASTM E10-08  
HBW  
181

TENSILE PROPERTIES ASTM E8-08

TS (PSI)	.2%YS (PSI)	%EL(2')	%RA
85100	36900	56.0	78.4

GRAIN SIZE ASTM E112-96

GRAIN SIZE	Etchant	Magnification X
8	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.  
 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 Hackel

*Handwritten:* SV  
all