



145.5
VALBRUNA
 SLATER STAINLESS, INC.
 2400 TAYLOR STREET WEST - PO BOX 630
 FORT WAYNE IN 46802 USA
 PHONE 260.434.2800 - FAX 260.434.2801

261747

Product Certification Report

Report Number: **5010860**

Certified on Jun 03, 2014 Page 1 of 2

Order I.D. 1401421 005		Order Date 5/22/14		Commodity Code 316D6.25	
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 261747	Customer I.D. 002474	Customer Purchase Order 40170
Product Shape Rounds			Product Surface HR & Rough Turned		Customer Grade T316D
Length (Inches) 120.000 Min. 168.000 Max.			Bill of Lading # 422023	Weight	

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

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

Lifts: 0059

MIL-S-7720A AMEND 1 XCPT Cu	MIL-S-862B	NACE MR0175/ISO 15156-3 2009
NACE MR0103-2010	UNS S31600/S31603	
ASTMA 182-13 Chem Only	ASTMA 193-12b	ASTMA 276-13a
ASTMA 320-11a chem only	ASTMA 479-13b	ASTMA 484-13a
ASMESA 182 13 Chem Only	ASMESA 193 13 ED Except 7.3.1	ASMESA 479-13
ASMESA 484 10 ED	AMS 5648L	AMS 5653H

SAE-AMS QQ-S-763C

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.021	1.66	.030	.022	.54	16.58	10.10	2.06	.52	.13	.08

BRINELL HARDNESS ASTM E10-12

HBW
170

TENSILE PROPERTIES ASTM E8-13a

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
80300	35000	61.6	78.5

MACRO ASTM E340-00/E381-01

MACRO
OK

GRAIN SIZE ASTM E112-12

GRAIN SIZE	Etchant	Magnification X
6	Oxalic	100

ASTM A262-13 PR E(A Utilized)

OXALIC	Etchant	Magnification X
OK	Oxalic	500

Free of mercury and low melting alloy contamination.
 Solution annealed at 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 to one or more of the listed ASTM methods:
 E415-14, E572-13, E1019-11, E1085-09, E1086-14.
 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

email: DHackett@valbruna.us



VALBRUNA

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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.

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