



VALBRUNA

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

Product Certification Report

Report Number: **5308330**

Certified on Mar 29, 2017 Page 1 of 2

Order I.D. 1700046 001	Order Date 1/05/17	Commodity Code 316D3.75R			
Dim 1 3.7500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 271450	Customer I.D. 002471	Customer Purchase Order 52293
Product Shape Rounds	Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 132.000 Min. 156.000 Max.		Bill of Lading # 429196	Weight		Melt Date: 9/19/16

Ship To
VALBRUNA STAINLESS, INC.
8105 Breen Road
HOUSTON, TX 77064

Sold To
VALBRUNA STAINLESS, INC.
8105 BREEN RDAD
HOUSTON, TX. 77064

Lifts: 0065 0068

MIL-S-7720A AMEND 1 XCPT Cu	MIL-S-862B	NACE MR0175/ISO 15156-3 2009
NACE MR0103-2012	UNS S31600/S31603	
ASTMA 182-16a Chem Only	ASTMA 193-16	ASTMA 276-16a
ASTMA 314-13a	ASTMA 320-15a chem only	ASTMA 479-16a
ASTMA 484-16	ASMESA 182 13 Chem Only	ASMESA 193 13 ED Except 7.3.1
ASMESA 479-13	ASMESA 484 10 ED	AMS 5648M
AMS 5653H	SAE-AMS QQ-S-763D	

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.014	1.47	.029	.028	.48	16.92	10.03	2.03	.41	.11	.07

BRINELL Type A device E10-15a

HBW
154

ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
80600	35000	60.3	75.9

GRAIN SIZE ASTM E112-13

GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

ASTM A262-15 PR E (A Utilized)

OXALIC	Structure	Etchant	Magnification X	QUENCH	SENS (F)	SENS (HR)
OK	Step	Oxalic	500	Air	1250	1.50

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:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

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. DFARS compliant. Our heat treat furnaces use air atmosphere.

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

email: TLandwehr@valbruna.us

Tad Landwehr



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Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.

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Manager Laboratory Services *Tad Landwehr*

email: TLandwehr@valbruna.us

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