



VALBRUNA
 SLATER STAINLESS, INC.
 2400 TAYLOR STREET WEST PO BOX 830
 FORT WORTH, TEXAS 76102 USA
 PHONE 817-334-2825 - FAX 817-334-2801

Product Certification Report

Report Number: **5241520**

Certified on Aug 24, 2016 Page 1 of 2

Order ID: 1601404 002	Order Date: 8/19/16	Dimensionality Code: 316D3-125RT
Dim 1: 3.1250	Dim 2: .0000	Dim 3: .0000
Product Shape: Rounds	Product Surface: HR & Rough Turned	Customer Grade: 316/316L
Length (Inches): 132.000 Min. 156.000 Max.	Bill of Lading #: 427649	Weight: 50605
Melt Date: 11/02/15		

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

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

Lifts: 0074

MIL-S-7720A AMEND 1 KCPT Cu	MIL-S-862B	NACE MRO175/ISO 15156-3 2009
NACE MRO103-2012	UNS S31600/S31603	ASTMA 276-16
ASTMA 182-15 Chem Only	ASTMA 193-15a	ASTMA 479-16
ASTMA 314-13a	ASTMA 320-14 chem only	ASMESA 193 13 RD Except 7.3.1
ASTMA 484-15	ASMESA 182 13 Chem Only	AMS 5648L
ASMESA 479-13	ASMESA 484 10 ED	
AMS 5653H	SAR-AMS QG-S-763D	

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.019	1.44	.031	.024	.51	16.84	10.00	2.07	.50	.10	.07

BRINELL (Type A device) (E-10)

HBW
165

TENSILE PROPERTIES ASTM E8-15a

TS (PSI)	2%YS (PSI)	REL(2%)	RA
85200	35900	57.1	75.1

GRAIN SIZE ASTM E112-13

GRAIN SIZE	Etchant	Magnification X
8	Oxalic	100

ASTM A262-14 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:
 F415-14, F1019-11, F1086-14.

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

Dennis Hackett

email: D.Hackett@valbruna.us

Dennis Hackett



VALBRUNA
 SLATER STAINLESS, INC.
 2400 TAYLOR STREET WEST PO BOX 630
 FORT WORTH, TX 76107 USA
 PHONE 262.434.2000 FAX 262.434.2001

Product Certification Report

Report Number: **5241520**

Certified on Aug 24, 2016 Page 2 of 3

Order I.D. 1601404 002		Order Date 8/19/16		Commodity Code 316D3.125RT			
Dim 1 3.1250	Dim 2 .0000	Dim 3 .0000	Steel I.D. 269101	Customer I.D. 002471	Customer Purchase Order 50605		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 132.000 Min. 156.000 Max.		Bill of Lading # 427649	Weight		Melt Date: 11/02/15		

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

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