

4TBR

HT# 271830



VALBRUNA SLATER STAINLESS, INC. 2400 TAYLOR STREET WEST - PO BOX 630 PORT WAYNE, IN 46602 USA PHONE 260.434.2600 - FAX 260.434.2601

Product Certification Report Report Number: 5311840

Certified on Apr 10, 2017 Page 1 of 2

Table with columns: Order I.D., Order Date, Commodity Code, Dim 1, Dim 2, Dim 3, Heat I.D., Customer I.D., Customer Purchase Order, Product Shape, Product Surface, Customer Grade, Length (inches), Melt Date.

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

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

Lifts: 0047 0048 0049 0052 MIL-S-7720A AMEND 1 XCPT Cu MIL-S-862B NACE MR0103-2012 UNS S31600/S31603 NACE MR0175/ISO 15156-3 2009 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 1.43 .030 .027 .60 16.81 10.01 2.04 .59 .13 .07

BRINELL Type A device E10-15a HBW 163

ROOM TEMP TENSILE ASTM E8-16a TS (PSI) .2%YS (PSI) %EL(2") %RA 82700 36800 57.0 76.1

MACRO ASTM E340-15/E381-01(12) MACRO OK

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.

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 Tad Landwehr email: TLandwehr@valbruna.us Tad Landwehr

From: TK Materials CA, Ltd. Cust. ATLANTIS INDUSTRIES CstAr Del.: 2405440869 Wgt.: 494 LB CstOr BOZO - Sept. 12/17 Date 09/14/2017

Thomas Sanchez



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: **5311840**

Certified on Apr 10, 2017 Page 2 of 2

Order I.D. 1700341 002	Order Date 2/10/17	Commodity Code 316D4.0RT			
Dim 1 4.0000	Dim 2 .0000	Dim 3 .0000	Heat I.D. 271830	Customer I.D. 002474	Customer Purchase Order 52890
Product Shape Rounds	Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 132.000 Min.	156.000 Max.	429256	Melt Date: 10/24/16		

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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. DFARS compliant. Our heat treat furnaces use air atmosphere.
Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.

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