



VALBRUNA

SLATER STAINLESS, INC.
2400 Taylor Street West, P.O. Box 630
Fort Wayne, Indiana USA 46801
Phone: 280-434-2892 Fax: 260-434-2905

253990

Product Certification Report

Report Number: 4671280

Certified on Jun 16, 2011 Page 1 of 1

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), Bill of Lading #, Weight.

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

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

CPA-029

Table with columns: MIL-S-7720A AMEND 1 XCPT Cu, UNS S31600/S31603, ASTM 193-09, ASTM 479-10a, ASMESA 193 07 ED, AMS 5648K, MIL-S-862B, ASTM 276-10, ASTM 484-09, ASMESA 479-10, AMS 5653F, NACE MRO 175-05 ISO 15156, ASTM 182-09a Chem Only, ASTM 320-08, ASMESA 182 07 ED Chem Only, ASMESA 484 07 ED, SAE-AMS QQ-S-763B

CHEMICAL ANALYSIS

Table with columns: C, Mn, P, S, Si, Cr, Ni, Mo, Cu, Co, N. Values: .015, 1.49, .031, .030, .42, 16.74, 10.15, 2.06, .65, .10, .07

BRINELL HARDNESS ASTM E10-08

HBW
159

TENSILE PROPERTIES ASTM E8-08

Table with columns: TS (PSI), .2%YS (PSI), %EL(2"), %RA. Values: 80800, 36400, 60.5, 74.9

GRAIN SIZE ASTM E112-96

Table with columns: GRAIN SIZE, Etchant, Magnification X. Values: 8, Oxalic, 100

ASTMA 262-10 PR E(A Utilized)

Table with columns: OXALIC Etchant, Magnification X. Values: 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 Hackett (Signature)

Dennis Hackett