

CUSTOMER: A.S.A. ALLOYS INC. P.O.#013077 CUST. PART#
Crucible
Specialty Metals
 A Division of Crucible Materials Corporation
 P.O. BOX 877
 SYRACUSE
 NEW YORK 13201

CITY: 8.570.100 DATE: 07-16-10 SIGNATURE: SUE WICKLAND

CERTIFICATE OF TEST

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A19148

OUR ORDER NO.
#5-10116-7-01

DATE
08/02/07

CUSTOMER ORDER # & DATE P-942397004	CUSTOMER REQ. #	DISTRICT D PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL

CRU 316/316L (.03 MAX CARBON) RTA 509382 SIZE *R25+306*
 11 RD
 ASTM-A276-06 A479-06A ASME-SA479-04ED NACE-MR-01-75-01
 AMS-QQ8-763A (QBS) QQ-8-763F AMS-5648K AMS-5653F
 ASTM-A193-06A GR B8M CL 1 (T316) ASME-SA193-04ED GR B8M (T316)
 ASTM-A320-05A GR B8M CL 1 (T316) ASME-SA320-04ED GR B8M (T316)
 EN 10204 3.1

HEAT NO.

CHEMICAL ANALYSIS

A19148	C	MN	P	S	SI	NI	CR	MO	CU	N
	.017	1.72	.019	.024	.65	10.29	16.27	2.10	.18	.083

QUANTITY

HEAT NO.

MECHANICAL PROPERTIES

13200 # A19148	TENSILE PSI	YLD.2XPSI	%ELONGAD	RED/AREA%	HARDNESS
	80,470	37,950	57.1	64.7	BHN 170

MACRO TEST OK
 GRAIN SIZE # 5
 INTERGRANULAR CORROSION TEST OK PER ASTM A262, PRACTICE E.
 MATERIAL ANNEALED AT 1900 DEG. F. - WATER QUENCHED.

* THIS MATERIAL WAS PRODUCED IN ACCORDANCE WITH CRUCIBLE POLICY MANUAL (01/22/02) *

* THE WILLFUL RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES. *

MATERIAL FREE FROM MERCURY CONTAMINATION AT TIME OF SHIPMENT
 NO WELD REPAIR PERFORMED
 MATERIAL MELTED IN U.S.A.

THANK YOU FOR SELECTING A QUALITY PRODUCT
 MANUFACTURED BY THE EMPLOYEES OF CRUCIBLE SPECIALTY METALS, INC.

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED IN ACCORDANCE
 WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH THOSE
 SPECIFICATION REQUIREMENTS.
 CRUCIBLE MATERIALS CORPORATION
 ACTING BY AND THROUGH ITS SPECIALTY METALS DIVISION

SWORN TO AND SUBSCRIBED BEFORE ME THIS
 DAY OF _____, 20____

CERTIFIED BY: *[Signature]*
 QUALITY ASSURANCE REPRESENTATIVE

NOTARY PUBLIC

I. J. WOOLSON - QUALITY ASSURANCE REPRESENTATIVE

ET3763