

HT # A15609  
**CERTIFICATE OF TEST**

ALLOYS INC STEINWAY BLVD TOBICOKE ONTARIO M9W6H6	SHIP TO ASA ALLOYS INC 4311-92ND AVENUE EDMONTON, ALBERTA T6B 3N7	PIECE 1	OUR ORDER NO. PS-10837-4-01
			DATE 06/25/04

CUSTOMER ORDER # & DATE 42603-CV	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL

ASTM A316/316L RTA SIZE 15.750 RD

AMS-5653F AMS-5648K AMS-00S-763 ASTM-A276-03 ASTM-A193-01B

ASTM-A479-03 ASTM-A182-02 (CHEM & MECH) ASME-SA182-01ED (CHEM & MECH)

ASME-SA479-01ED ASME-SA193-01ED MIL-S-7720A NACE-MR-01-75-01

EN 10204 3.1B

ITEM NO.	CHEMICAL ANALYSIS										
	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
A15609	.018	1.79	.027	.025	.59	10.11	16.35	2.10	.13	.31	.083

QUANTITY	HEAT NO.	MECHANICAL PROPERTIES				
		TENSILE PSI	YLD. 2XPSI	ELONG 2IN	RED/AREA%	HARDNESS
6337 #	A15609	78,532	36,184	51.0	58.2	BHN 140

MACRO TEST OK

INTERGRANULAR CORROSION TEST OK.

GRAIN SIZE # 2.5

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

*B 11664*

**THANK YOU FOR SELECTING A QUALITY PRODUCT  
MANUFACTURED BY THE EMPLOYEES OF CRUCIBLE SPECIALTY METALS 1**

SWORN TO AND SUBSCRIBED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH SPECIFICATION REQUIREMENTS.

CRUCIBLE MATERIALS CORPORATION  
ACTING BY AND THROUGH ITS SPECIALTY METALS DIVISION

CERTIFIED BY: *William T. Masten*