

# CERTIFICATE OF TEST

*A15538*

ASA ALLOYS INC  
STEINWAY BLVD  
BROCKTON ONTARIO H9W6H6

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ASA ALLOYS INC  
4311-92ND AVENUE  
EDMONTON, ALBERTA T6B 3H7

OUR ORDER NO  
F5-10852-4-

DATE  
05/25/04

CUSTOMER ORDER # & DATE 042603-CV	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL SIZE  
 CRU 316/316L RTA 8 RD  
 AMS-5693F AMS-5648K AMS-005-763 ASTH-A276-03 ASTH-A193-01B  
 ASTH-A479-03 ASTH-A182-02 (CHEM & MECH) ASME-SA182-01ED (CHEM & MECH)  
 ASME-SA479-01ED ASME-SA193-01ED HIL-S-7720A NACE-MR-01-75-01  
 EN 10204 3.1B

AT NO.	CHEMICAL ANALYSIS										
A15538	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
	.022	1.89	.026	.026	.64	10.24	16.59	2.10	.096	.32	.078

JANTITY	HEAT NO.	MECHANICAL PROPERTIES				
4870 #	A15538	TENSILE PSI	YLD. 2XPSI	ELONG2IN	RED/AREAZ	HARDNESS
		32,129	33,528	55.6	57.2	BHN 140

MACRO TEST OK  
 INTERGRANULAR CORROSION TEST OK.  
 GRAIN SIZE # 3

*E11658*

MATERIAL FREE FROM MERCURY  
 NO WELD REPAIR PERFORMED  
 MATERIAL MELTED IN U.S.A.

EXAMINATION AT TIME OF SHIPMENT  
 THANK YOU FOR SELECTING A QUALITY PRODUCT  
 MANUFACTURED BY THE EMPLOYEES OF CRUCIBLE SPECIALTY METALS

SWORN TO AND SUBSCRIBED BEFORE ME THIS

\_\_\_\_\_ DAY OF \_\_\_\_\_, 20

NOTARY PUBLIC

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

CRUCIBLE MATERIALS CORPORATION  
 TESTING BY AND THROUGH ITS SPECIALTY METALS DIVISION

CERTIFIED BY:

*William L. Masten*

QUALITY ASSURANCE REPRESENTATIVE