

CERTIFICATE OF TEST 36524

3 ASA ALLOYS INC 81 STEINWAY BLVD ETOBICOKE ONTARIO M9W6H6	SHIP TO ASA ALLOYS INC 81 STEINWAY BLVD ETOBICOKE ONTARIO M9W6H6	OUR ORDER NO. P5-10360-4-03
		DATE 04/01/04

CUSTOMER ORDER # & DATE 042387-CV	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL SIZE
 CRU 316/316L RTA 4 RD
 AMS-5653F AMS-5648K AMS-QQS-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

HEAT NO.	CHEMICAL ANALYSIS										
	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
A15340	.020	1.82	.025	.024	.53	10.28	16.55	2.17	.10	.33	.093

QUANTITY	HEAT NO.	MECHANICAL PROPERTIES				
		TENSILE PSI	YLD. 2% PSI	ZE LONG 2 IN	RED/AREA %	HARDNESS
4375 #	A15340	80,177	44,383	56.0	77.0	BHN 163/165

RAIN SIZE # 6

INTERGRANULAR CORROSION TEST OK.

GRAIN SIZE # 6

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 JW

SWORN TO AND SUBSCRIBED BEFORE ME THIS

_____ DAY OF _____, 20

NOTARY PUBLIC

WILLIAM E MASTROE - MANAGER QUALITY ASSURANCE

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

CERTIFIED BY:

QUALITY ASSURANCE REPRESENTATIVE