

12 ECH 20 A15720



P.O. BOX 977
SYRACUSE
NEW YORK 13201

CERTIFICATE OF TEST

38718

ABA ALLOYS INC 81 STEINWAY BLVD ETOWICKE ONTARIO N9W6H6	S H I P T O	ABA ALLOYS INC 81 STEINWAY BLVD ETOWICKE ONTARIO N9W6H6	OUR ORDER NO. P5-10423-4-01
		DATE 03 08/02/04	

CUSTOMER ORDER # & DATE 042392-DV	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL

CRU 316/316L RTA SIZE 16 RD
 ANS-3683F ANS-3648K ANS-508-763 ASTM-A276-03 ASTM-A193-03
 ASTM-A477-04 ASTM-A192-04 (CHEM & MECH) ASME-SA182-01ED (CHEM & MECH)
 ASME-SA475-01ED ASME-SA178-01ED MIL-S-7720A NADE-MR-01-75-01
 ER 10204 3.1B

HEAT NO.	CHEMICAL ANALYSIS											
A15720	C	MN	P	S	SI	NI	CR	MO	CO	CU	N	
	.022	1.65	.030	.020	.50	10.24	16.99	2.08	.13	.39	.070	

QUANTITY	HEAT NO.	MECHANICAL PROPERTIES					
6181 #	A15720	TENSILE PSI	YLD. 2% PSI	ELONG2IN	RED/AREAX	HARDNESS	
		77,162	33,639	54.3	64.0	BHN 141	

MACRO TEST OK

INTERGRANULAR CORROSION TEST OK.

GRAIN SIZE # 4

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 IN

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:

William E. Mastroe

QUALITY ASSURANCE REPRESENTATIVE