

A-9 CERTIFICATE OF TEST

S O T O	A M CASTLE, INC 3400 N WOLF RD FRANKLIN PARK, IL 60131	S H I P T O	A M CASTLE, INC 3400 N WOLF RD FRANKLIN PARK, IL 60131	OUR ORDER NO. PS-11952-6-
			DATE 09/15/06	

CUSTOMER ORDER # & DATE 01-14778	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL

CRU 316/316L RT A IAC 31026 SIZE 16 RD
 AMC 3316-98 REV 23 ASTM-A182-05A (CHEM & MECH) A193-06 (EX PAR 6.3)
 A276-06 A479-05A ASME-SA182-04ED ASME-SA193-04 (EX PAR 6.3)
 ASME-SA479-04ED AMS-5648K AMS-5653F AMS-Q08-763A UNS #S31600
 S31603 MIL-8-7720 AMD 1 COMP 316 (EX CU)

HEAT NO.	CHEMICAL ANALYSIS											
A18116	C	MN	P	S	SI	NI	CR	MO	CO	CU	N	
	.017	1.75	.025	.025	.70	10.27	16.35	2.07	.10	.14	.086	

CASTLE METALS FP
 DATE REC'D 9.20.06 IAC 31026
 APPROVED BY: *[Signature]*

QUANTITY HEAT NO. MECHANICAL PROPERTIES

QUANTITY	HEAT NO.	TENSILE PSI	YLD. 2X PSI	%ELONG 4D	RED/AREA %	HARDNESS BHN
5674 #	A18116	77,530	32,660	57.2	62.1	146

MACRO TEST OK
 GRAIN SIZE # 3
 INTERGRANULAR CORROSION TEST OK.
 MATERIAL ANNEALED AT 1950 DEG. F. - WATER QUENCHED.

CRUCIBLE MATERIALS CORP. VENDOR #18610.
 MATERIAL INGOT CAST.

NAFTA - YES

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

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 THE SPECIFICATION REQUIREMENTS.
 CRUCIBLE MATERIALS CORPORATION
 ACTING BY AND THROUGH ITS SPECIALTY METALS DIVISION
 CERTIFIED BY: *[Signature]*
 QUALITY ASSURANCE REPRESENTATIVE
 I.J. WOOLSON - QUALITY ASSURANCE REPRESENTATIVE