

06-27-'07 14:26 FROM-

HT# A19069

T-602 P008/034 F-534



SYRACUSE NEW YORK 13201

CERTIFICATE OF TEST

S D T O	A M CASTLE, INC	S H I P T O	A M CASTLE, INC	OUR ORDER NO.
	3400 N WOLF RD FRANKLIN PARK, IL 60131		3400 N WOLF RD FRANKLIN PARK, IL 60131	03 06/20/07

CUSTOMER ORDER # & DATE	CUSTOMER REQ. #	DISTRICT	SHIPPED FROM
01-29480		B PARSONS	SYRACUSE

DESCRIPTION OF MATERIAL

CRU 316/316L RT A IAC 31025 SIZE
15 RD
 AMC-3316-9B REV 27 ASTM-A182-06 (CHEM & MECH) A193-06A (EX PAR 6.3)
 A276-06 A479-06A ASME-SA182-04ED (CHEM & MECH) ASME-SA193-04ED (EX PAR 6.3)
 ASME-SA479-04ED AMS-5648K AMS-5653F UNS# S31600/S31603
 AMS-S-7720 AMD COMP 316 (EX CU)

HEAT NO.	CHEMICAL ANALYSIS										
	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
A19069	.015	1.63	.022	.023	.66	10.34	16.32	2.12	.077	.18	.071

QUANTITY	HEAT NO.	MECHANICAL PROPERTIES				
		TENSILE PSI	YLD.2%PSI	%ELONG4D	RED/AREA%	HARDNESS
6192 #	A19069	79,380	36,150	57.6	58.4	BHN 140

MACRO TEST OK
 GRAIN SIZE # 3.5
 INTERGRANULAR CORROSION TEST OK,
 MATERIAL ANNEALED AT 1900 DEG. F. - WATER QUENCHED.

CRUCIBLE MATERIALS CORP. VENDOR #18610.
 MATERIAL INGOT CAST.
 NAFTA - YES

CASTLE METALS CORP.
 DATE RCVD 6/27/07
 IAC 31025
 APPROVED BY [Signature]

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 IL

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED IN ACCORD WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH THE SPECIFICATION REQUIREMENTS.
 CRUCIBLE MATERIALS CORPORATION
 ACTING BY AND THROUGH ITS SPECIALTY METALS DIVISION

SWORN TO AND SUBSCRIBED BEFORE ME THIS
 _____ DAY OF _____, 20

CERTIFIED BY: [Signature]
 QUANTITY ASSURANCE REPRESENTATIVE

NOTARY PUBLIC

I. J. WOOLSON - QUALITY ASSURANCE REPRESENTATIVE