



P.O. BOX 911  
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. P5-19757-6-
	3400 N WOLF RD FRANKLIN PARK, IL 60131		3400 N WOLF RD FRANKLIN PARK, IL 60131	DATE 02 03/09/07

CUSTOMER ORDER # & DATE 01-27009	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL

SIZE

CRU 316/316L RT A IAC 31022 11 RD  
 AMC-3316-98 REV 26 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
A18565	.016	1.62	.023	.029	.58	10.12	16.26	2.04	.18	.31	.081

CASTLE METALS CORP.  
 DATE RCVD 3/21/07  
 IAC 31022  
 APPROVED BY [Signature]

QUANTITY	HEAT NO.	MECHANICAL PROPERTIES				
		TENSILE PSI	YLD. 2% PSI	%ELONG4D	RED/AREA%	HARDNESS
4112 #	A18565	80,010	35,620	57.3	65.9	BHN 144

MACRO TEST OK  
 GRAIN SIZE # 4  
 INTERGRANULAR CORROSION TEST OK.  
 MATERIAL ANNEALED AT 1900 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

I. J. WOOLSON - QUALITY ASSURANCE REPRESENTATIVE

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

CERTIFIED BY: \_\_\_\_\_

QUALITY ASSURANCE REPRESENTATIVE