



SYRACUSE
NEW YORK 13261

CERTIFICATE OF TEST

M CASTLE, INC 30 N WOLF RD FRANKLIN PARK, IL 60131	SHIP A M CASTLE, INC 3400 N WOLF RD FRANKLIN PARK, IL 60131	A19848	OUR ORDER NO. 5-17428-7-01
			DATE 03/06/08

CUSTOMER ORDER # & DATE 01-39864	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL: CRU 316L/316 PLUS RT A IAC 40846
 SIZE: 9 RD
 AMS-3316-9B REV 2B ASTM-A182-07 (CHEM & MECH) A193-07 (EX PAR 6.3)
 A276-06 A479-06A ASME-SA182-07ED (CHEM & MECH) ASME-SA193-07ED (EX PAR 6.3)
 ASME-SA479-07ED AMS-5648K AMS-5653F UNS# S31600/31603
 AMS-8-7720 AMD 1 COMP 316 (EX CU)

EAT NO.	CHEMICAL ANALYSIS											
A19848	C	MN	P	S	SI	NI	CR	MO	CU	CU	N	
	.023	1.61	.021	.024	.65	10.70	16.28	2.10	.063	.26	.065	

CASTLE METALS CORP.
 DATE RCVD 4/1/07
 IAC 40846
 APPROVED BY

QUANTITY	HEAT NO.	MECHANICAL PROPERTIES				
6262 #	A19848	TENSILE PSI	YLD. 2% PSI	%ELONG4D	RED/AREA%	HARDNESS
		82,260	40,740	57.2	62.3	BHN 154

MACRO TEST OK
 GRAIN SIZE # 3.0
 INTERGRANULAR CORROSION TEST OK PER ASTM A262, PRACTICE E.
 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

JON PIKARSKY

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:

QUALITY ASSURANCE REPRESENTATIVE

- QUALITY ASSURANCE REPRESENTATIVE