



# CERTIFICATE OF TEST

S O L D T O	A M CASTLE, INC	A M CASTLE, INC	OUR ORDER NO P5-18302-6-0
	3400 N WOLF RD FRANKLIN PARK, IL 60131	3400 N WOLF RD FRANKLIN PARK, IL 60131	DATE 11 01/30/07

CUSTOMER ORDER # & DATE 01-24471	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL

SIZE

CRU 316/316L RT A IAC 31022 II RD  
 AMC 316-98 REV 25 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 AMS-908-763A  
 UNS-31600 31603 MIL-S-720A AND 1 COMP 316 (EX CU)

HEAT NO.

CHEMICAL ANALYSIS

A18644	C	MN	P	S	SI	NI	CR	NO	CO	CU	N
	.017	1.39	.023	.028	.62	10.16	16.49	2.19	.079	.22	.079

CASTLE METALS FC  
 DATE REC'D 3/16/07 IAC 31022  
 APPROVED BY

QUANTITY	HEAT NO.	MECHANICAL PROPERTIES				
4302	A18644	TENSILE PSI	YLD. 22% PSI	% ELONGAD	RED/AREA%	HARDNESS
		77,870	43,380	58.2	64.9	BHN 139

MACRO TEST OK  
 GRAIN SIZE # 5  
 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 (M)

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 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:

QUALITY ASSURANCE REPRESENTATIVE