

08-27-'07 11:32 FROM-

T-676 P001/004 F-355



P.O. BOX 977  
SYRACUSE  
NEW YORK 13201

# CERTIFICATE OF TEST

A M. CASTLE, INC  
3400 N WOLF RD  
FRANKLIN PARK, IL 60131

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A M CASTLE, INC  
3400 N WOLF RD  
FRANKLIN PARK, IL 60131

OUR ORDER NO.  
F5-12132-7-01

DATE  
08/20/07

CUSTOMER ORDER # & DATE  
01-31041

CUSTOMER REQ. #

DISTRICT  
B PARSONS

SHIPPED FROM  
SYRACUSE

DESCRIPTION OF MATERIAL

SIZE

CRU 316/316L RT A IAC 31025 15 RD  
AMC-3316-98 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# S31600/31603  
AMS-S-7720 AMD.1 COMP 316 (EX CU)

HEAT NO.

CHEMICAL ANALYSIS

HEAT NO.	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
A19185	.019	1.61	.021	.022	.67	10.15	16.31	2.16	.087	.24	.079

QUANTITY

HEAT NO.

MECHANICAL PROPERTIES

QUANTITY	HEAT NO.	TENSILE PSI	YLD.2XPSI	%ELONG4D	RED/AREA%	HARDNESS
6260 #	A19185	80,650	34,570	59.3	65.8	BHN 158

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.

MATERIAL FREE FROM CONTINUOUS CARBIDE NETWORK.

NAFTA - YES

CASTLE METALS CORP.  
DATE RCVD 8/25/07  
IAC 8/22/07  
APPROVED BY la

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 JW

WORN TO AND SUBSCRIBED BEFORE ME THIS

\_\_\_\_\_ DAY OF \_\_\_\_\_, 20

NOTARY PUBLIC

JACKIE L. WHITE - SPECIFICATION EXAMINER

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