

SP 425, 30-A



P.O. BOX 877
SYRACUSE
NEW YORK 13201

CERTIFICATE OF TEST

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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

A19805

OUR ORDER NO.
PS-16369-7-01
DATE
02/15/08

CUSTOMER ORDER # & DATE: 01-37371
CUSTOMER REQ. #:
DISTRICT: R PARSONS
SHIPPED FROM: SYRACUSE

DESCRIPTION OF MATERIAL

CRU 316L/316 PLUS RT A IAC 40846
AHC-3316-98 REV 27 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
ANS-S-7720 AMD 1 COMP 316 (EX CU)

SIZE

9 RD

HEAT NO.

CHEMICAL ANALYSIS

HEAT NO.	C	MN	P	S	SI	NI	CR	MO	CO	CU	N
A19805	.021	1.66	.024	.021	.58	10.06	16.41	2.07	.11	.46	.079

CASTLE METALS CORP.
DATE RCVD 2/19/08
IAC 40846
APPROVED BY [Signature]

QUANTITY

HEAT NO.

MECHANICAL PROPERTIES

QUANTITY	HEAT NO.	TENSILE FSI	YLD.2%PSI	%ELONG4D	RED/AREA%	HARDNESS
6242 #	A19805	82,120	40,520	56.7	61.1	BHN 147

MACRO TEST OK
GRAIN SIZE # 5.0

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 JP

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 THOSE SPECIFICATION REQUIREMENTS.

CRUCIBLE MATERIALS CORPORATION
ACTING BY AND THROUGH ITS SPECIALTY METALS DIVISION

CERTIFIED BY: [Signature]

QUALITY ASSURANCE REPRESENTATIVE

QUALITY ASSURANCE REPRESENTATIVE