

**Crucible
Specialty Metals**
A Division of Crucible Materials Corporation

P.O. BOX 977
SYRACUSE
NEW YORK 13201

CERTIFICATE OF TEST

COPPER & BRASS SALES INC
ATTENTION: ACCOUNTS PAYABLE
2355 WEST ELEVEN MILE ROAD
SOUTHFIELD, MI 48034

SHIP TO: COPPER & BRASS SALES
10648 W. LITTLE ROCK, SUITE 400
HOUSTON TX 77041

OUR ORDER NO.
010224-210

DATE
10/11/06

CUSTOMER ORDER # & DATE: KS016 CUSTOMER REQ. #: DISTRICT: B PARSONS SHIPPED FROM: SYRACUSE

DESCRIPTION OF MATERIAL: CRU 316/316L RTA (P/N 399450-6)
ASTM-A479-05A ASTM A276-04 AMS-5648K AMS-5653F ASME-SA479-04ED QMS-763F
SAFARS 252.225.7014 & 225.7002-3 (B)(1) COMPLIANT SIZE: 11 RD

CHEMICAL ANALYSIS

ITEM NO.	C	MN	P	S	SI	NI	CR	MO	CU	N
A18221	.020	1.63	.028	.020	.34	10.13	16.42	2.11	.51	.081



A18221

MECHANICAL PROPERTIES

ITEM ID	HEAT NO.	TENSILE PSI	YLD. STRENGTH	ELONGATION	REDUCTION OF AREA	HARDNESS
8536 & A18221		81,390	38,460	53.7	62.3	RHN 141

MACRO TEST OK
INTERGRANULAR CORROSION TEST OK.
GRAIN SIZE # 4

MATERIAL FREE FROM MERCURY CONTAMINATION AT TIME OF SHIPMENT
WELD REPAIR PERFORMED
MATERIAL MELTED IN U.S.A.

THANK YOU FOR SELECTING A QUALITY PRODUCT
MANUFACTURED BY THE EMPLOYEES OF CRUCIBLE SPECIALTY METALS

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED IN CONFORMANCE WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH SPECIFICATION REQUIREMENTS.
CRUCIBLE MATERIALS CORPORATION
ACTING BY AND THROUGH ITS SPECIALTY METALS

SWORN TO AND SUBSCRIBED BEFORE ME THIS _____ DAY OF _____, 2006

CERTIFIED BY: _____ QUALITY ASSURANCE REPRESENTATIVE

NOTARY PUBLIC