

1/2008 12:24
Crucible
Specialty Metals
A Division of Crucible Materials Corporation

780-437-6367
P.O. BOX 877
SYRACUSE
NEW YORK 13201

A18191

THYSSEN CANADA LTD

CERTIFICATE OF TEST

COPPER & BRASS SALES INC
ATTENTION: ACCOUNTS PAYABLE
22355 WEST ELEVEN MILE ROAD
SOUTHFIELD, MI 48034

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T
O
COPPER & BRASS SALES
10648 W. LITTLE YORK, SUITE 400
HOUSTON TX 77041

OUR ORDER NO
P5-13220-6--

DATE
10/03/06

CUSTOMER ORDER # & DATE CK5011	CUSTOMER REQ. #	DISTRICT B PARSONS	SHIPPED FROM SYRACUSE
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DESCRIPTION OF MATERIAL
 CRU 316/316L RTA (P/N) 399435-7) SIZE
 8.500 RD
 ASTM-A479-05A ASTM A276-06 AMS-5648K AMS-5653F ASME-SA479-04ED QRS-763F



MATERIAL NO.	CHEMICAL ANALYSIS										
	C	MN	P	S	SI	NI	CR	MO	CU	N	
A18191	.021	1.69	.027	.020	.67	10.21	16.66	2.13	.35	.081	

IDENTITY	HEAT NO.	MECHANICAL PROPERTIES					HARDNESS BHN 140
		TENSILE PSI	YLD. 2% PSI	ELONG% 4D	RED/AREA%		
9201	A18191	80,320	35,270	59.1	65.6		

WACKO TEST OK
INTERGRANULAR CORROSION TEST OK.
GRAIN SIZE # 2.5

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

SWORN TO AND SUBSCRIBED BEFORE ME THIS
DAY OF _____, 20

NOTARY PUBLIC

JOHN M. PIRMAN

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

MANAGER OF QUALITY ASSURANCE